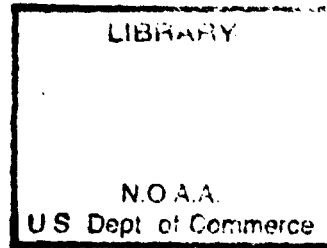


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กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ บุญนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ประจำเดือน มกราคม พ.ศ. ๒๕๐๘

นากរាង ๒๔๗๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 1
January 1951

National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

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กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรุณ วิชัยภักดิ์ บุนนาค เจ้ากรมอุตุนิยมวิทยา

Capt. Charoon V. Bunnag R.T.N., Director

สถิติอุตุนิยมวิทยาประจำเดือนสัมหารับการบิน

๔๕๖ ฉบับที่ ๑

ประจำเดือน มกราคม ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 1
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Aeronautical Statistics

Contents

page

Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8 ths of the sky (Table I) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	1-4, 8-9, 13-15.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	5,10,16.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more for the height of the base of the low cloud covering more than 4/8 ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	6,11,17.
Number of occurrences of specified values of surface dry bulb and dewpoint temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	7,12,18.

ก า ນ ง า

สมกสติศึกนิยมวิทยาสำหรับการบินนี้ ได้ร่วมประเมินความซื่อถอกลังที่ประชุมร่วมระหว่าง CMAe กับ Met. Div. ICAO เพื่อให้เป็นประไบชันสำหรับการบินทางไทยให้มีกำหนดการเดินทางเดือนนั้น ของอากาศประจำเดือน การออกนิยมไทย ให้ตักษณ์สื่อสารภาษาไทย เริ่มตั้งแต่เดือน มกราคม ๒๕๔๘ เป็นต้นไป.

แต่แรกเริ่มของการให้เกียกพิมพ์เมื่อต้นเดือนมกราคมปีที่แล้ว เมื่อไก่มีการเปลี่ยนแปลงมาใหม่ก็ตาม ข้อกกลังที่ประชุมครั้งนี้ รูปว่างหนังสือไว้ให้เปลี่ยนไปค่าย ซึ่งเป็นการจะควบและมายกที่การพัฒนาศักดิ์ษา.

ในทางภูมิศาสตร์และทางน้ำค่าของระดับความกดอากาศที่ 1000 mb. คือ 40 mb. ยังไม่ได้กำหนด ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอยู่คราวนี้ไปข้างอย่าง เมื่อไก่ปีที่แล้วมีกลับกันนี้มีการวางแผนโดยสมบูรณ์.

กราบ叩นิยมวิทยาเพื่อรายงานว่า
กรุงเทพฯ วันที่ ๑๓ สิงหาคม ๒๕๔๘

Aeronautical Statistics

Contents

page

Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than $4/8$ ths of the sky (Table I) at Don Muang, Nakorn Rajasima, and Songkhla Airport.

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Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, and Songkhla Airport.

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Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more /or the height of the base of the low cloud covering more than $4/8$ ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, and Songkhla Airport.

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7,12,18.

คำนำ

สมกสติอุทกนิยมวิทยาสำหรับการบินนี้ ได้ร่วมกันจัดทำขึ้นตามที่ขอร้องที่ประชุมร่วมระหว่าง CMA& กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินทางอากาศให้มีกำหนดออกเบื้องต้นนี้ กองอากาศประกำdin กรมอุทกนิยมวิทยา ได้รับอนัสัยประทานนี้ เริ่มตั้งแต่เดือน มกราคม ๒๕๔๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยพิมพ์สมุดที่นักบินของนักบินรายเดือนอยู่แล้ว เมื่อไก่มีการเปลี่ยนแปลงแก้ไขกันใหม่ก้ามข้อกอลที่ประชุมครั้งนี้ รู้ว่าคงต้องปรับเปลี่ยนไปกว่าเดิม ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

ดัง ตาราง & กล่าวดังข้อมูลนี้จะถูกนำเสนอค่างช่องระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมีไกด์ที่ ทั้งนั้น นองจากเครื่องมือ Radiosonde ชาติปัจจุบันใช้บางอย่าง เมื่อไก่ปัจจุบันพร้อมแล้วสมุดสิ่งที่ถูกนิยมที่ทางกรุงเทพฯ วันที่ ๓ สิงหาคม ๒๕๔๔ ครบゴบสมบูรณ์.

กรมอุทกนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๓ สิงหาคม ๒๕๔๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain. R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month January Time of observation 0600 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											2	3	26
Total											2	3	26
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month January Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 < 100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-89 (4800-7800 m.)													
40 or more (8000 or more)											1	30	31
Total											1	30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muaug Year 1951 Month January Time observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100ft.	00 100	01 200	02 300	03 400	04 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											3	28	31
Total											3	28	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month January Time observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100ft	00 100	01 200	02 300	03 400	04 500	05 600-700	06-07 800-900	08-09 1000-1400	10-14 1500-2900	15-29 3000-7900	V / ()	Total
00 (<200 m.)	.												
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1					3	4
24-39 (4800-7800 m.)											1	8	9
40 or more (8000 or more)											2	15	17
Total							1				3	27	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month January Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N	83	15	4									102
NE	76	11	2									89
E	94	28	30	4	4							160
SE	1	1										2
S	44	9	-	1								54
SW	9	2										11
W	72	12										84
NW	98	29	4									181

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang

Year 1951

Month January

Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (>75 km.)	TOTAL	
dd	hh	00 01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
	hh	00 01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
	dd	< 30- 60- 150- 30 m. 120 270								
	vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N										
NE										
E										
SE										
S										
SW										
W										
NW										
Calm										
Total										

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month January

Height of thermometer above ground 4.0 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					1						
34	1				7						
33	2				5						
32	4				2						
31	8				5						
30	1	2			5						
29	2	9			5	2					
28	3	6			-	9					
27	8	2			1	5					
26	1	5	4		-	1					
25	-	4	5	1	-	5					
24	1	2	4	-	-	4	1	1	1	1	1
23	-	1	5	9	-	4	4	-	1	6	3
22	-	-	4	3	-	1	6	4	5	3	3
21	-	-	5	6	-	-	5	5	6	3	4
20	-	-	3	3	-	-	3	3	5	3	2
19	-	-	1	1	-	-	4	6	3	4	7
18	-	-	-	4	-	-	2	3	5	5	1
17	-	-	-	4	-	-	5	2	5	4	2
16	-	-	-	-	-	-	1	3	-	3	3
15	-	-	-	-	-	-	-	2	-	-	5
14	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	2	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month January Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-11 1000-1400	15-29 1500-2900	30-79 3000-7900	V / ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)								1			22	3	5
Total								1			22	3	5
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month January Time observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh													V ()	Total
		<100ft	00 100	01 200	02 300	03 400	04 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900			
00 (<200 m.)												1			1
01 (200 m.)											1				1
02 (400 m.)															
03 (600 m.)									1	1			7		9
04 (800 m.)															
05 (1000 m.)											1				1
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)															
10-11 (2000-2200 m.)								1			4			11	16
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)											1			1	2
24-39 (4800-7800 m.)															
40 or more (8000 or more)								1							1
Total									2	1	8	1	19		81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month January Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		13	14										27
NE		14	23	1									37
E		7	21	1									28
SE		2	1	1									4
S		1	1										2
SW		1	2										3
W		2											2
NW			1										1

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima

Year 1951

Month January

Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (>75 km.)	TOTAL
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-
vv	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month January

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42					-						
41											
40											
39											
38											
37											
36					1						
35					2						
34	1				3						
33	2				8						
32	2				4						
31	2				6						
30	1				2						
29	8				6						
28	5	1			2	1					
27	3	4			1	3					
26	1	2			1	2					
25	4	8				4					
24	1	4				4					
23		3	1			5		1	2		
22	1		2	1		2		2	4		
21		5	6	-		5		4	4	1	
20		3	2	4		2		4	1	3	4
19		1	4	3		2		4	5	3	4
18			4	4		1		6	3	5	2
17			1	5				6	2	3	4
16			3	3				4	2	3	6
15			3	1				1	3	4	2
14			1	2				2	3	1	2
13			3	2				2	1	2	2
12			1	2				2	1	5	2
11				2				3		1	2
10				2				2			2
9											2
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $(M^3Y + N)/12$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month January Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100 ft	100-200	200-300	300-400	400-500	500-700	700-900	800-900	1000-1400	1500-2900	3000-7900	8000+	()
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)												6	25	31
Total												6	25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month January Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												3	7
Total												3	7
												21	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8ths or less
(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month January Time observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	80-99	10-14	15-29	30-79	V	Total
		<100ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00	(<200 m.)													
01	(200 m.)													
02	(400 m.)													
03	(600 m.)													
04	(800 m.)													
05	(1000 m.)													
06-07	(1200-1400 m.)													
08-09	(1600-1800 m.)												2	2
10-11	(2000-2200 m.)													
12-15	(2400-3000 m.)													
16-23	(3200-4600 m.)													
14-39	(4800-7800 m.)													
0 or more														
8000 or more)													18	29
Total													6	31
													6	20

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month January Time of observation 1800 - 1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		1	-	2									3
NE		7	15	12	5	1							40
E	46	46	77	115	83								317
SE	22	11	3	6									42
S	4	1											5
SW	4												4
W	4												4
NW													

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month January Time of Observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (>75 km.)	TOTAL	
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
dd	< 30- 60- 150- 30 m. 120 270									
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N										
NE										
E										
SE										
S										
SW										
W										
NW										
Calm										
Total										

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome. the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month January

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30					4						
29	18				19						
28	10				7	3					
27	-	16	2	2	1	18					
26	2	11	18	13		8	3				
25	-	4	7	8		2	11	2	1		1
24	1		4	3			10	13	9		.3
23				5			4	12	12		11
22							3	4	7		15
21										1	
20										1	1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{1}{4}(t_1 + t_2 + t_3 + t_4)$



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นางสาวก ชรุณ วิชัยากบ บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๖

กุมภาพันธ์ ๒๕๓๔



MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 2
February 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก จรุณ บุษยากัปต์ บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนส์หรับการบิน

๘๔ ฉบับที่ ๒

กุมภาพันธ์ ๑๙๕๑

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 2
February 1951

Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8ths of the sky (Table I) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	1-4, 8-9, 13-15.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	5,10,16.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more /or the height of the base of the low cloud covering more than 4/8ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	6,11,17.
Number of occurrences of specified values of surface dry bulb and dewpoint temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	7,12,18

คำนำ

สมกสติ กิจศนิยมวิทยาสำหรับการบินนี้ ได้ร่วมรวมขั้นตอนการทำงานชั้นกลางที่ประชุมร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นไปอย่างสําหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประการ์ดิน กรมอุตุนิยมวิทยา ได้รักษาสืบสานต่อไปเรื่อยๆ แก่ภารกิจ นกภานุ ๒๔๙๔ เป็นทันที.

แต่แรกเริ่มทางการได้เก็บคัพมิสซิปส์มาทำนองของเป็นรายเดือนอยู่แล้ว เมื่อไก่มีการเปลี่ยนແบลังแก้ไขกันใหม่ก็ตาม ชั้นกลางที่ประชุมครั้งนี้ รูปร่างหนังสือจะไม่เปลี่ยนไปกว่าเดิม ซึ่งก็เป็นการสะดวกและง่ายที่ของการพิจารณาคิดเห็น.

มอง ตาราง & กล่าวดังขุดหภูมิและรุกน้าค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังไม่ได้รักทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดชั้นปัจจุบันนี้ไปบางอย่าง เมื่อไก่มีการเพิ่มเติมแล้วสมกสติ กิจศนิยมวิทยาการบินก็จะมีการรวมโดยสमบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy
Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain, R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month February Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V $\frac{V}{V+C}$	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											4	3	24
Total											4	3	24
													28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked $\frac{V}{V+C}$ indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month February Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												1	27
Total												1	27
													28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month February Time observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100ft.	00 100	01 200	02 300	03 400	04 500	05 600-700	06-07 800-900	80-90 1000-1400	10-14 1400-1500	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)												1	27	28
Total												1	27	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month February Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V — —	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)													2	2
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)													1	1
08-09 (1600-1800 m.)													3	3
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)													11	11
24-39 (4800-7800 m.)													7	7
40 or more (8000 or more)													1	3
Total													1	27
														28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month February Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	9	4											13
NE	81	20	2	1									104
E	88	28	13	9	6								144
SE	52	32	3										87
S	108	80	8	2									198
SW	38	20											58
W	57	9											66
NW	33	14											47

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month February Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (>75 km.)	TOTAL
dd	hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
hh	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-	< 30- 60- 150- 30 m. 120- 270-
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Don Muang Year 1951 Month February

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37					1						
36					1						
35					5						
34	4				12						
33	7				5						
32	9				1						
31	5	4			1						
30	-	7			1	1					
29	1	7			1	4					
28	-	8				12					
27	-	1				5					
26	2	1	7			3				1	
25			4			3				1	
24		9	1						1	6	
23		6	7				8	1	4	5	3
22		1	12				8	3	6	5	6
21		1	5				7	6	5	3	7
20			-				1	3	7	2	3
19			3				4	7	1	1	4
18								4	1	2	1
17								1	1	2	3
16								1	1		-
15								1	1		1
14								1			
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month February Time observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)								1				4	5
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												9	9
40 or more (8000 or more)												11	18
Total								1		2		25	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month February Time observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												1	1
04 (800 m.)												1	1
05 (1000 m.)											1	5	6
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												4	4
10-11 (2000-2200 m.)												7	7
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												4	4
24-39 (4800-7800 m.)											1	1	2
40 or more (8000 or more)												3	3
Total											2	26	28

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month February Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	1	3											4
NE	11	5	8										24
E	2	6	3										11
SE	5												5
S	7	3											10
SW	8	7	1										16
W	9	4											13
NW	7	3											10

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Nakorn Rajasima Year 1951 Month February Time of Observation 2400, 0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)				7-10 (12-19 km.)				11-16 (20-28 km.)				17-21 (29-38 km.)				22-27 (39-49 km.)				28-33 (50-61 km.)				34-40 (62-74 km.)				> 40 (>75 km.)				TOTAL						
	hh	00-01	02	04	05-09	00-01	02-04	05	09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09						
dd	hh	< 30-	60-	150-		< 30-	60-	150-		< 30-	60-	150-		< 30-	60-	150-		< 30-	60-	150-		< 30-	60-	150-		< 30-	60-	150-		< 30-	60-	150-		< 30-	60-	150-			
	vv	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270					
N	hh	00-03	04	07	08-23	00-03	04-07	08-23		00-03	04-07	08-23		00-03	04-07	08-23		00-03	04-07	08-23		00-03	04-07	08-23		00-03	04-07	08-23		00-03	04-07	08-23		00-03	04-07	08-23			
	vv	<200-	800-	1600-		<200-	800-	1600-		<200-	800-	1600-		<200-	800-	1600-		<200-	800-	1600-		<200-	800-	1600-		<200-	800-	1600-		<200-	800-	1600-		<200-	800-	1600-		<200-	800-
NE	hh	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600					
	vv																																						
E	hh																																						
	vv																																						
SE	hh																																						
	vv																																						
S	hh																																						
	vv																																						
SW	hh																																						
	vv																																						
W	hh																																						
	vv																																						
NW	hh																																						
	vv																																						
Calm	hh																																						
	vv																																						
Total	hh																																						

Data are not falling within the specified ranges.

- Notes : (a) Wind direction (dd) is with reference to true North.
(b) Ranges of wind speed (ff) are given in knots; and in km within brackets.
(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).
(d) The ranges of horizontal visibility (vv) are as follows:
00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn rajasima Year 1951 Month February

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38					8						
37	4				-						
36	2				4						
35	5				7						
34	2				1						
33	8				4						
32	4				-						
31	2	4			2						
30	3	3			-	3					
29	-	4			-	5					
28	-	5			1	3					
27	1	2	1		1	2		1			
26	-	3	-			4		-			
25	-	4	2	1		2		-			
24	1	1	5	-		7		-			
23	-	-	2	-		2		1	2		1
22	-	1	-	4			2	1	3	2	-
21	-	-	6	2			3	1	3	1	3
20	1	1	8	1			3	2	5	4	1
19			1	5			3	4	5	4	2
18			2	2			4	8	6	5	2
17			1	5			5	3	1	8	4
16			-				-	3	1	2	2
15			8				7	3	2	2	3
14							-	1			9
13											-
12							1				1
11											-
10											-
9											-
8											-
7											-
6											-

- Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule:

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month February Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh													V — —	Total
		00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900			
00	(<200 m.)														
01	(200 m.)														
02	(400 m.)														
03	(600 m.)														
04	(800 m.)														
05	(1000 m.)														
06-07	(1200-1400 m.)														
08-09	(1600-1800 m.)														
10-11	(2000-2200 m.)														
12-15	(2400-3000 m.)														
16-23	(3200-4600 m.)														
24-39	(4800-7800 m.)														
40 or more	(8000 or more)												1	27	28
Total													1	27	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month February Time observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

vv \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / /	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												3	25
Total												3	25
													28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month February Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06	07	08-09	10-14	15-29	30-79	V — ()	Total
		<100 ft.	100	200	300	400	500	600	700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)															
01 (200 m.)															
02 (400 m.)															
03 (600 m.)															
04 (800 m.)															
05 (1000 m.)															
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)															
10-11 (2000-2200 m.)															
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)															
24-39 (4800-7800 m.)															
40 or more (8000 or more)														1	28
Total														1	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month February Time of observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N													
NE		3	3										6
E	28	24	25	11	8	1							97
SE	6	3	1	1									11
S		5											5
SW													
W		4											4
NW													

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month February Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

		ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (> 75 km.)	TOTAL	
dd	hh	00-01 02 04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
dd	hh	< 30- 60- 150- 30 m. 120 270										
dd	vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N												
NE												
E												
SE												
S												
SW												
W												
NW												
Calm												
Total												

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome ; the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month February

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30	12				16						
29	11				10						
28	4	2	1	1	2	2					
27	-	19	6	-		7					
26	1	6	8	5		17	2				
25	-		9	1		2	5	2	1		
24		1	4	9			2	6	1		4
23				11			12	13	14		7
22				1			7	5	11		15
21								2	1		1
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule:



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

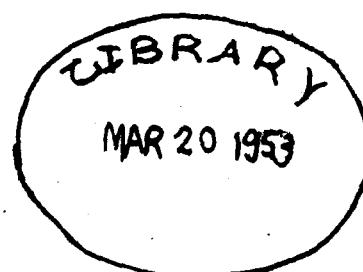
นาวาเอก ชรุณ บุญมาก
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.;
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

๘๔ ฉบับที่ ๓

มีนาคม ๒๕๑๔



MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 3
March 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ บุญญาภิญ มนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน
มีที่ ๑ ฉบับที่ ๓
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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

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Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8 ths of the sky (Table I) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	1-4, 8-9, 13-15.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	5,10,16.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more/or the height of the base of the low cloud covering more than 4/8 ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	6,11,17
Number of occurrences of specified values of surface dry bulb and dewpoint temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	7,12,18

คำนำ

สมกัดติดอกนิยมวิทยาสำหรับการบินนี้ ไกรเวชรวมความซักถามถึงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเรียนรายเดือนนั้น กองอากาศประจักษ์ กกรมอุตุนิยมวิทยา ได้รักษาและปรับเปลี่ยน เว็บไซต์เกือน มกราคม ๒๕๖๔ เมื่อกันไป.

แท้แรกเริ่มทางการไก่เคยพัฒนาสมุดท่านอ่อนน้อมถ่อมตนเป็นรายเดือนอยู่แล้ว เมื่อไก่มีการเปลี่ยนແบ์ตงแก้ไขกันใหม่ตามชีวิตของที่ประชุมกรุงรัตน์ รู้ร่างหนังสือโรงไก่เปลี่ยนไปกว้าง ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

บันทึกการเดินทางและกิจกรรมต่างๆ ของนักวิทยาศาสตร์ในช่วงเวลาที่อยู่ในประเทศไทย รวมถึงการสำรวจสภาพอากาศและสภาพแวดล้อมในประเทศ ตลอดจนการนำเสนอผลการสำรวจและข้อเสนอแนะต่อรัฐบาลไทย ให้เป็นประโยชน์ต่อการพัฒนาประเทศ

กรมอุปถัมภ์วิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๓๓ สิงหาคม ๒๕๖๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain, R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month March Time observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V —	Total		
00 (<200 m.)															
01 (200 m.)															
02 (400 m.)															
03 (600 m.)															
04 (800 m.)															
05 (1000 m.)															
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)															
10-11 (2000-2200 m.)															
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)															
24-39 (4800-7800 m.)												1	1		
40 or more (8000 or more)												7	21	30	
Total												8	2	21	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month March Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 17	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												3	28
Total												3	28
													31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
 (i) no cloud
 (ii) hh = 80 or more
 (iii) cloud amount 4/8ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month March Time observation 1800 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100 ft.	00	01	02	03	04	05	06-07	80-90	10-14	15-29	30-79	V / /	Total
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)													1	31
Total													1	31
													30	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month March Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 hs of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												2	2
24-39 (4800-7800 m.)										1	1	13	15
40 or more (8000 or more)												14	14
Total										1	1	29	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month March Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	6	2											8
NE	18	5	1	2									26
E	58	45	9	5				1					118
SE	107	125	44	6	2								284
S	56	80	27	9									172
SW	34	36	9	1									80
W	28	12											40
NW	3												3

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month March Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

		ff			0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL								
		hh	00	01	02-04	05	09	00-01	02	04	05-09	00-01	02	04	05-09	00	01	02-04	05-09	00-01	02	04	05-09	00-01	02	04	05-09	00-01	02	04	05-09	00-01	02	04	05-09		
dd	hh	00	01	02-04	05	09	00-01	02	04	05-09	00-01	02	04	05-09	00	01	02-04	05-09	00-01	02	04	05-09	00-01	02	04	05-09	00-01	02	04	05-09	00-01	02	04	05-09			
	hh	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-			
	hh	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270			
	vv	00	03	04-07	08	23	00-03	04	07	08-23	00-03	04	07	08-23	00	03	04-07	08-23	00-03	04	07	08-23	00-03	04	07	08-23	00-03	04	07	08-23	00-03	04	07	08-23			
	vv	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-
	vv	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600			
N																																					
NE																																					
E																																					
SE																																					
S																																					
SW																																					
W																																					
NW																																					
Calm																																					
Total																																					

Data are not falling within the specified ranges.

- Notes: (a) Wind direction (dd) is with reference to true North.
 (b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
 (c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
 00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
 02-04 = " " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
 05-09 = " " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).
 (d) The ranges of horizontal visibility (vv) are as follows:
 00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
 04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
 08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
 (e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month March

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37					6						
36	2					10					
35	6						8				
34	18						7				
33	4	1									
32	5	8									
31	1	10					8				
30		12					15				
29		4					7				
28		1	4				6				
27			14						1		
26			6	2					-		
25			7	10				4		1	10
24			1	12				18	5	10	9
23				5				10	7	12	6
22			4	2				2	4	4	3
21									5	-	1
20								1	4	-	1
19									1	2	1
18									2	1	-
17									-	1	1
16									-		
15									1		
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule; $\frac{M_{\text{ax}} + M_{\text{in}}}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Nakorn Rajasima Year 1951 Month March Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)													1	1
24-39 (4800-7800 m.)													15	15
40 or more (8000 or more)													1	15
Total													1	30
														31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

— 9 —

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month March Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)												4	4
03 (600 m.)												2	2
04 (800 m.)												5	5
05 (1000 m.)												5	5
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												8	8
10-11 (2000-2200 m.)												1	1
12-15 (2400-3000 m.)												6	6
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)													
40 or more (8000 or more)												4	4
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1961 Month March Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		6	5	8	-	1	1					*	16
NE		17	12	7	1	1							38
E		4	6	1	1	1							12
SE		4	2	2	-	-	1	-	2				11
S		6	9	8									18
SW		7	6	8	8	8	-	2					28
W		6	4	8	1								14
NW		6	8										9

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Nakorn Rajasima Year 1961 Month March Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)				7-10 (12-19 km.)				11-16 (20-28 km.)				17-21 (29-38 km.)				22-27 (39-49 km.)				28-33 (50-61 km.)				34-40 (62-74 km.)				>40 (>75 km.)				TOTAL		
	hh	00-01	02 04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09				
dd	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-		
vv	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270					
	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23					
	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-					
	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600					
N																																			
NE																																			
E																																			
SE																																			
S																																			
SW																																			
W																																			
NW																																			
Calm																																			
Total																																			
Data are not falling within the specified ranges.																																			

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month March

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40					2						
39	2					4					
38	-					12					
37	5					8					
36	2					5					
35	11					8					
34	8	1				-					
33	2	1				1					
32	2	4				1					
31	-	2			2	5					
30	-	9				12					
29	2	4				4					
28	2	2				5					
27	2	2				1					
26		2	6			1					
25	3	10	1			3			1	1	
24		4	7				5	1	1		
23		2	12				7	10	2	5	4
22	1	3	8				10	4	7	9	12
21		4	8				2	5	9	7	4
20			1				3	2	3	3	4
19			1				-	3	5	2	1
18			-				1	-	2	2	1
17			8				2	2	1	1	-
16							-	2		1	-
15							1	1			4
14								1			-
13											1
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule; Max. Min.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month March Time observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	80-90	10-14	15-29	30-79	V	Total
		<100ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)													2	29
Total													2	29
														81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month March Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)												.	
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)	.												
40 or more (8000 or more)												3	28
Total									.			3	28
													31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month March Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / /	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											4	26	30
Total											4	27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month March Time of observation 1800 - 1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-8	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N													•
NE		1	1	2									4
E	18	20	88	28	6	2							111
SE	2	8	5	8									13
S	4	1											5
SW	8												3
W													
NW	,												

Notes. a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month March Time of Observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (> 75 km.)	TOTAL	
hh	00-01 02 04 05 09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
dd	< 30- 60- 150- 30 m. 120 270									
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	< 30- 60- 150- 30 m. 120 270
N										
NE										
E										
SE										
S										
SW										
W										
NW										
Calm										
Total										

Data are not falling within the specified ranges.

- Notes :** (a) Wind direction (dd) is with reference to true North.
(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).
(d) The ranges of horizontal visibility (vv) are as follows:
00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome. The remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month March

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	24 GI
48											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	2				6						
31	14				14						
30	10				11						
29	4	1				5					
28	1	19		1		13					
27		10		8		10					
26		1		8		6	5				
25			18	7				6	9		
24				15	7			8	18	8	
23				8	8			8	5	13	
22					2			3	3	8	
21								1	1	2	
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

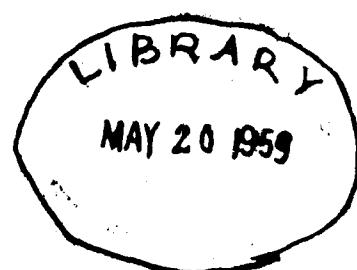
นาวาเอก ชรุณ บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

มีที่ ๑ ฉบับที่ ๔

เมษายน ๒๕๓๔



MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 4
April 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ วิชัยกัป บุนนาค
เจ้ากรม

Capt. Charoon V. Bumag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน
๔๔ ฉบับที่ ๔

เมษายน ๑๙๕๑

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 4
April 1951

Aeronautical Statistics

Contents

Page

Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4 / 8 ths of the sky (Table I) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	1-1, 8-9, 13-15.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	5,10,16.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more/or the height of the base of the low cloud covering more than 4 / 8 ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	6,11,17.
Number of occurrences of specified values of surface dry bulb and dewpoint temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	7,12,18

คำนำ

สมุดสติ๊กนิยมวิทยาสำหรับการบินนี้ ได้รับรวมขั้นตอนข้อทดสอบที่ประชุมร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินทางอากาศโดยให้มีกำหนดของเอกสารเป็นรายเดือนนั้น กองอากาศประจำเดือน กรมอุตุนิยมวิทยา ได้รักษาและปรับปรุงขึ้น เริ่มตั้งแต่เดือน มกราคม พ.ศ.๒๕๔๘ เป็นต้นไป.

แท้จริงแล้วการให้เกียรติพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อไก่มีการเปลี่ยนแปลงแก้ไขกันใหม่ก็ตาม ข้อทดสอบที่ประชุมครั้งนี้ รูปถ่ายหนังสือจะไม่เปลี่ยนไปกว่า ซึ่งก็เป็นการสะดวกและง่ายที่อุตุนิยมวิทยาดำเนินการ.

อนง. ตาราง & ค่าความชื้นที่ต่ำและสูง ค่าคงของกับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้รักษา ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อไก่ปีก่อนพร้อมแล้วสุกสติ๊กนิยมวิทยาการบินก็จะมีตาราง ครบโภบสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๑๓ สิงหาคม พ.ศ.๒๕๔๘

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.

Charoen V. Bannag.

Captain. R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month April Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)											1		1	
40 or more (8000 or more)											4	1	24	29
Total											5	1	24	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month April Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
 height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V)	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)													3	3
24-39 (4800-7800 m.)													3	3
40 or more (8000 or more)													24	24
Total													80	80

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table II

Aerodrome Don Muang Year 1951 Month April Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots													Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63		
N														
NE	6	2												8
E	77	46	7	6	3	1								140
SE	82	103	39	6	1									231
S	67	81	24	16	1									189
SW	37	38	7	1										83
W	23	11	2											36
NW	10	2	1											13

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month April Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-19 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270	< 30- 60- 150- 30 m. 120- 270
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 - height equal to or greater than zero but less than 60 metres (200 feet);

02-04 - " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 - " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 - horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 - " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile)

08-23 - " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month April

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39					5						
38	1				7						
37	4				13						
36	13				2						
35	8				3						
34	1	2				1					
33	1	8				4					
32	1	11				10					
31	-	3				10					
30	1	3	1			3					
29		2	8			2					
28	-	11	2				1				
27	-	5	8				3			2	
26	-	2	12				13	1	2	5	6
25	1	2	4				6	3	2	11	4
24		1	4				6	8	11	4	10
23							1	5	5	6	4
22								5	7	-	4
21								5	3	2	2
20								1			
19								-			
18								-			
17								1			
16								-			
15								1			
14								-			
13								-			
12								-			
11								-			
10								-			
9								-			
8								-			
7								-			
6								-			

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:
$$\frac{\text{Max} + \text{Min}}{2}$$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month April Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06 600	07 700	08-09 800 900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)													6	6
40 or more (8000 or more)													22	24
Total													28	30

- Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month April Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	< 100ft.	00 100	01 200	02 300	03 400	04 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)												4	4
05 (1000 m.)												4	4
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)												1	1
12-15 (2400-3000 m.)												6	6
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												14	14
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month April Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N	2	1										3
NE	7	4	2									13
E	6	3	8									12
SE	-	8	3	-	1	1						13
S	8	5	8	-	1							17
SW	12	18	4	2	1							32
W	10	9	1	-	1							21
NW	9	3	1									13

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month April Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	<30- 60- 150- 30 m. 120- 270-								
vv	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23
	<200- 800- 1600- 600 m. 1400- 4600-								
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month April

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42					2						
41					2						
40	2				5						
39	8				7						
38	4				2						
37	8				4						
36	9				5	1					
35	8				1						
34	8	1			-	-					
33	1	2			1	5					
32	-	6			-	5					
31	-	7			1	7					
30	1	2				7					
29	1	2	1			3					
28		2	5	1		1					
27		4	4	2		1					
26		2	6	6			6				
25		1	7	11			4	1	1	2	
24		-	6	7			6	1	-	4	8
23		1	1	8			10	8	12	15	9
22								4	6	13	8
21								8	3	1	1
20								4	1		
19								1			
18								1			
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month April Time observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)									1				1
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	29
40 or more (8000 or more)												1	28
Total									1		1	28	80

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month April Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V — () —	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-28 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)													30	30
Total													30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month April Time observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

hh VV	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ✓ (	Total
00 (<200 m.)												1	1
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)												1	1
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												1	2
Total												8	25
													30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month April Time of observation 1800 - 1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		2	-	1									3
NE		7	8	11	8	2							31
E		11	7	10	8	2							38
SE		4	-	2	2	1							9
S		7	2										9
SW		8	2	2	1								18
W		8	2	8	8								16
NW													

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Songkhla Year 1951 Month April Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month April

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36					1						
35					-						
34	1				5						
33	2				5						
32	9				11						
31	10	1			7						
30	5	8			1	1					
29	1	11			18						
28	-	7	2		11						
27	-	8	8		5	3	1	1			
26	-		8			1	4	1			1
25	-		14			10	8	5			4
24	2		3			10	11	16			9
23						2	5	5			12
22						1	1	1			3
21						1	-				1
20						2	-				
19								1			
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: Max + Min / 2



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก ชรุต บุษยากัล บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

ผลิตภัณฑ์นิยมวิทยาประจำเดือนสำหรับการบิน

มิถุนายนที่ ๕

พฤษภาคม ๒๕๑๔

MAY 20 1951

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 5

May 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ วิชัยากข์ บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

พ.ศ. ๒๕๖๔ ฉบับที่ ๕

พฤษภาคม ๒๕๖๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 5
May 1961

Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8 ths of the sky (Table I) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	1-4, 8-9, 13-15.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	5,10,16.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more/or the height of the base of the low cloud covering more than 4/8 ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	6,11,17.
Number of occurrences of specified values of surface dry bulb and dewpoint temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, and Songkhla Airport.	7,12,18

คำนำ

สมกศสกิ๊ตอกนิยมวิทยาสำหรับการบินนี้ ได้รับความเห็นชอบตามข้อตกลงที่ประชุมร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเบื้องต้นรายเดือนนั้น กองอากาศประร่วมดิน กรมอุตุนิยมวิทยา ได้รับอนัตติประเกณชนน์ เริ่มทั้งแท้เกือน มกราคม พ.ศ.๒๕๔๘ เมื่อกันไป.

แท้แรกเริ่มทางการได้เกียกพิมพ์สมุดทำนองนี้ออกเบื้องต้นรายเดือนนั้นแล้ว เมื่อไก่มีการเปลี่ยนแปลงแก้ไขกันใหม่กามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือโรงได้เปลี่ยนไปกวัย ซึ่งก็เห็นการสะกวณและง่ายต่อการพิจารณาศึกษา.

ยัง ตาราง & กล่าวถึงข้อมูลหุ่มจำลองน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมีไก่ตักทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดชุบกรณ์ไปบางอย่าง เมื่อไก่ตักกรณ์พร้อมแล้วสมุดสิ่งที่อุตุนิยมวิทยาการบินก็จะมีตารางกราฟโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๓๑ สิงหาคม พ.ศ.๒๕๔๘

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.

Charoon V. Bunag.

Captain. R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month May Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V —(—)	Total	
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900			
00 (<200 m.)															
01 (200 m.)															
02 (400 m.)															
03 (600 m.)															
04 (800 m.)															
05 (1000 m.)															
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)															
10-11 (2000-2200 m.)															
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)												1		1	
24-39 (4800-7800 m.)															
40 or more (8000 or more)												8	2	20	30
Total												9	2	20	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muaug Year 1951 Month May Time observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)											1		1
24-89 (4800-7800 m.)												5	5
40 or more (8000 or more)											1		24
Total											2		29
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table 1

Aerodrome Don Muang Year 1951 Month May Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hb	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 1 ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												28	30
Total												29	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hb.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hb = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muaug Year 1951 Month May Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)											1		1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1					1	2
24-39 (4800-7800 m.)												2	2
40 or more (8000 or more)											5		21
Total							1				6		24
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figure~~s~~ of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked ^V
~~V~~) indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month May Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N		1										1
NE	30	6	-		1	1						38
E	81	41	13		3							138
SE	111	75	22		9							217
S	53	39	20		4	1						117
SW	37	9	-		1							47
W	47	20										67
NW	27	11	1									89

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month May Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)					7-10 (12-19 km.)					11-16 (20-28 km.)					17-21 (29-38 km.)					22-27 (39-49 km.)					28-33 (50-61 km.)					34-40 (62-74 km.)					>40 (>75 km.)					TOTAL				
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09								
dd	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°	< 30°	60°	150°									
dd	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270									
dd	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23											
dd	vv	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600											
dd	vv	600 m.	1400	4600	600 m.	1400	4600 <th>600 m.</th> <td>1400</td> <td>4600</td>	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600											
N																																													
NE																																													
E																																													
SE																																													
S																																													
SW																																													
W																																													
NW																																													
Calm																																													
Total																																													

Data are not falling within the specified ranges.

- Notes: (a) Wind direction (dd) is with reference to true North.
 (b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
 (c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
 00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
 02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
 05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).
 (d) The ranges of horizontal visibility (vv) are as follows:
 00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
 04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
 08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
 (e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month May

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point				
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT	
43												
42												
41												
40												
39												
38					2							
37					8							
36	3				4							
35	5				5							
34	8				6							
33	6	1			3							
32	3	5			1	1						
31	3	3			-	9						
30	-	6			1	11						
29	1	5	1		1	6						
28	2	4	6			2						
27		4	8	4		1			2	1		
26		3	10	13		1	8		3	5	1	
25			5	11			14		7	12	11	11
24			1	2			7		9	10	9	12
23				1			1	13	4	4	6	
22							1	2		1	1	
21												
20												
19												
18												
17												
16												
15												
14												
13												
12												
11												
10												
9												
8												
7												
6												

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{M_3 + M_1}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month May Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												6	17
Total												6	8
													31
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month May Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												2	2
04 (800 m.)												1	1
05 (1000 m.)												1	1
06-07 (1200-1400 m.)							2					1	3
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)									1				1
12-15 (2400-3000 m.)												5	5
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												2	2
40 or more (8000 or more)							1				1	14	16
Total							3		1	1	28		31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month May Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	5	2		1									8
NE	6	1	2										9
E	2	6	-	-	2								10
SE	4	3											7
S	7	6											13
SW	10	14	3	1	-	1							29
W	16	7	3										26
NW	5	3											8

Notes

- a) Wind direction is with reference to true North.
- b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month May Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)					7-10 (12-19 km.)					11-16 (20-28 km.)					17-21 (29-38 km.)					22-27 (39-49 km.)					28-33 (50-61 km.)					> 40 (> 75 km.)					TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09				
dd	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	
	vv	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	
	vv	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	
	vv	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	
N																																						
NE																																						
E																																						
SE																																						
S																																						
SW																																						
W																																						
NW																																						
Calm																																						
Total																																						

Data are not falling within the specified ranges.

- Notes : (a) Wind direction (dd) is with reference to true North.
(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).
(d) The ranges of horizontal visibility (vv) are as follows:
00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month May

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43					-	-	-				
42					-	-	-				
41					-	-	-				
40					-	-	-				
39					-	-	-				
38					2	-	-				
37					2	-	-				
36	1				6	-	-				
35	5				7	-	-				
34	8				3	-	-				
33	7				8	-	-				
32	5				2	-	-				
31	3	2			1	2	-				
30	2	3			-	9	-				
29		7			-	8	-				
28		8			-	10	-				
27		5	2	1	-	2	-				
26		4	6	7	-	-	-	7	2		
25		5	13	12	-	-	4	10	11		7
24		2	7	10	-	-	13	11	13	14	14
23			2	1	-	-	12	2	3	14	9
22			1	-	-	-	-	1	1	3	1
21				-	-	-	2	-	-	-	-
20				-	-	-	-	-	-	-	-
19				-	-	-	-	-	-	-	-
18				-	-	-	-	-	-	-	-
17				-	-	-	-	-	-	-	-
16				-	-	-	-	-	-	-	-
15				-	-	-	-	-	-	-	-
14				-	-	-	-	-	-	-	-
13				-	-	-	-	-	-	-	-
12				-	-	-	-	-	-	-	-
11				-	-	-	-	-	-	-	-
10				-	-	-	-	-	-	-	-
9				-	-	-	-	-	-	-	-
8				-	-	-	-	-	-	-	-
7				-	-	-	-	-	-	-	-
6				-	-	-	-	-	-	-	-

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month May Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100ft.	00 100	01 200	02 300	03 400	04 500	05 600-700	06-07 800-900	08-09 1000-1400	10-14 1500-2900	15-29 3000-7900	V / /	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											6	23	29
Total											6	25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month May Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)										1		1	2
40 or more (8000 or more)										6		22	28
Total										7		24	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month May Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 < 100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)										1			1
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											27	29	
Total									3		28	31	

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month May Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	4	3											7
NE	7	8	14		4	1							34
E	4	4	8		1								17
SE	6	2											8
S	14	7	9	1									31
SW	18	23	16	6	3	1							67
W	18	10	10	9	3	1							46
NW	4	3	4										11

Note: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrom Songkhla Year 1951 Month May Time of Observation 1800-1500 GMT

Aerodrom Congonha Year 1951 Month May Time of Observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (11)

00-01 - height equal to or greater than zero but less than 60 metres (200 feet)

02-04- " " " " 60 metres (200 feet) but less than 150 metres (500 feet).

05 09— " " " " " 80 metres (200 feet) but less than 150 metres (500 feet); 150 metres (500 feet); 300 metres (1000 feet);

(d) The ranges of horizontal visibility (vv) are as follows:

00-03—horizontal visibility equal to or greater than zero but less than 800 meters.

~~04-07 - HORIZONTAL VISIBILITY EQUAL TO OR GREATER THAN ZERO BUT LESS THAN 800 METRES (APPROXIMATELY 800 METRES)~~

04-07- " " " " " .. 800 metres (approximately 300 yards) but le
08-23- ..

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month May

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					1						
35	1				3						
34	1				3						
33	5				7						
32	7				12						
31	5				5						
30	6	4				4					
29	3	10				11					
28	1	7	2			13					
27	-	6	5			1			1		
26	2	3	15	18				2	3		
25		1	9	12				13	9	11	5
24				1				13	14	10	13
23								3	4	9	9
22										1	3
21											-
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

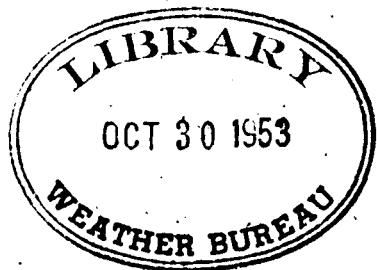
Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY



นาวาเอก ชรุณ วิชากัศ บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

๔๔ • ฉบับที่ ๖

มิถุนายน ๒๕๑๘

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 6
June 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก ชู眷 วิชยาภัค บุนนาค
เจ้ากรม

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สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

มหานคร ณ บันทึก

มิถุนายน ๒๕๑๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 6
June 1951

Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8ths of the sky (Table I) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	1-4, 8-9, 13-15, 19-21.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, Songkhla and Chiengmai Airport.	5,10,16,22.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more / or the height of the base of the low cloud covering more than 4/8ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	6,11,17,23.
Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	7,12,18,24.

คำนำ

สมกสติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รับความชั้นความซับซ้อนของที่ประชุมร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นไปตามมาตรฐานสำหรับการบินสากลโดยให้มีกำหนดของข้อเสนอรายเดือนนั้น กองอากาศประร่วมดิน กรมอุตุนิยมวิทยา ได้รับอนงส์และยกเว้น เริ่มตั้งแต่เดือน มกราคม ๒๕๔๘ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยพิมพ์สมุดที่นักบินของนักเรียนรายเดือนแล้ว เมื่อไก่มีการเปลี่ยนแปลงแก้ไขกันใหม่ก่อน ข้อกติกาที่ประชุมครั้งนี้ รู้ไว้ว่าหนังสือธงได้เปลี่ยนไปกว้าง ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

ฉะนั้น ตารางและลักษณะอุณหภูมิและอุกกาражของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังคงไว้กัน ทั้งนี้ เนื่องจากเครื่องมือ Radiosonde ขาดชุบกรดไปบางอย่าง เมื่อไก้ปัจจุบันพัฒนาแล้วสมุดสติอุตุนิยมวิทยาการบินก็จะมีตารางกราฟโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๓๓ สิงหาคม ๒๕๔๘

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

• Meteorological Department,

Royal Thai Navy,

Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain. R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh											V / ()	Total	
		00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)													1	1
40 or more (8000 or more)												3	1	25
Total												3	1	26
														30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)											1		1
24-39 (4800-7800 m.)												4	4
40 or more (8000 or more)											1	24	25
Total										1	1	28	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)											1	1	2
40 or more (8000 or more)											1	27	28
Total											2	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												2	2
24-39 (4800-7800 m.)							1				1	6	8
40 or more (8000 or more)											2	18	20
Total							1				3	26	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month June Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N	1												1
NE	1												1
E	37	25	7	1									70
SE	61	55	30	1									147
S	76	37	18	2									133
SW	120	30	7	2									169
W	48	29	27	13	3								120
NW	4												4

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrom Don Muang Year 1951 Month June Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL				
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	
dd	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	
	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270		
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	
		<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	
		600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	
N																													
NE																													
E																													
SE																													
S																													
SW																													
W																													
NW																													
Calm																													
Total																													

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 - height equal to or greater than zero but less than 60 metres (200 feet);

02-04 - " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 - " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 - horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 - " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 - " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome. The remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month June

Height of thermometer above ground 4.0 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					4						
34	3					10					
33	8	1				6					
32	5	-				5					
31	9	4				4	2				
30	2	5				-	7				
29	1	6				1	16				
28	-	7	5				4				
27	-	5	11	8			1				
26	2	-	11	10				10	2	1	4
25	-	-	3	8				18	8	15	18
24	2			4				7	11	9	1
23									9	3	6
22									2	-	3
21											-
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month June Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V)	Total
		<100ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06 07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10 11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16 23 (3200-4600 m.)														
24 39 (4800-7800 m.)												1		1
40 or more (8000 or more)											4	5	20	29
Total											4	6	20	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month June Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)												3	3
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												8	8
40 or more (8000 or more)												1	18
Total												1	29
													30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month June Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11	16	17-21	22-27	28-33	34-40	41-47	56-63	
N		1	1										2
NE		2	-	1									3
E		-	1										1
SE		1	2	3									6
S		8	8	4									20
SW		5	14	9	-		1						29
W		10	18	21	9	4	8						65
NW													

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Nakorn Rajasima Year 1951 Month June Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270	<30 60 150 30 m. 120 270
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month June

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					2						
34	2				4						
33	9				10						
32	5				8						
31	6				4						
30	6	1			2						
29	1	4				9					
28	-	5				15					
27	1	7				6					
26		7	8						4	2	
25		2	18	21				1	7	6	1
24		2	9	9				17	5	5	11
23		1						8	9	9	15
22		1						4	1	6	9
21								4	2		4
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month June Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	<100 ft.					00-07		08-09		10-14		15-29		30-79		V — () —	Total	
		00	01	02	03	04	05	600-700	800-900	1000-1400	1500-2900	3000-7900	8000+	8000+	8000+	8000+			
00 (<200 m.)																			
01 (200 m.)																			
02 (400 m.)																			
03 (600 m.)																			
04 (800 m.)																			
05 (1000 m.)																			
06-07 (1200-1400 m.)																			
08-09 (1600-1800 m.)																			
10-11 (2000-2200 m.)																			
12-15 (2400-3000 m.)																			
16-23 (3200-4600 m.)																1	1		
24-39 (4800-7800 m.)																5	5		
40 or more (8000 or more)																2	22	24	
Total																2	28	30	

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month June Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hb	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900) (
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-14 (2000-2200 m.)										1				1
12-15 (2400-3000 m.)												1		1
16-23 (3200-4600 m.)											1			1
24-39 (4800-7800 m.)												6		6
or more 100 or more)												21		21
Total										2		28		30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hb.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hb = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month June Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V — —	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900	8000+	
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)													1	1
06-07 (1200-1400 m.)													1	1
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)													1	1
16-23 (3200-4600 m.)													6	6
24-39 (4800-7800 m.)													10	10
40 or more (8000 or more)													11	11
Total													80	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month June Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N	2	2	1									5
NE	9	4	19	4	-	1						37
E	6	9	9	1								25
SE	4	3	2									9
S	25	16	3									44
SW	12	12	10	4	3	2						43
	9	2	8	5	2							22
	1											1

Note: Wind direction is with reference to true North.

The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Songkhla Year 1951 Month June Time of Observation 1800-1900 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	<30- 60- 150- 30 m. 120- 270- 00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome: the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV**Aerodrome Songkhla Year 1951 Month June****Height of thermometer above ground 1.20 Metres**

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature °C	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35					1						
34	2					4					
33	5					5					
32	4					7					
31	10	1				10					
30	4	12				2	1				
29	2	5	1			1	9				
28	1	4	1				13				
27	2	6	8	1			7				
26		1	14	15				2	1	3	2
25		1	5	10				12	4	6	5
24			1	4				12	13	8	8
23								3	9	8	11
22								1	2	2	3
21								-	1	3	
20									1	1	
19											1
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai Year 1951 Month June Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

vv \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
10 or more 8000 or more)											2	27	29
Total											2	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for vv; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month June Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V)	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)												1		2
24-39 (4800-7800 m.)												1		1
40 or more (8000 or more)										1	1	1	24	27
Total										1	3	1	25	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengnai Year 1951 Month June Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15 29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)												1	1
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												7	7
40 or more (8000 or more)												21	21
Total												80	80

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month June Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		3											3
NE													
E		2											2
SE		7	2										9
S		54	15	1	8	1							74
SW		81	9	2									42
W		2	2										4
NW		-	-	1									1

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Chiengmai Year 1951 Month June Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)				7-10 (12-19 km.)				11-16 (20-28 km.)				17-21 (29-38 km.)				22-27 (39-49 km.)				28-33 (50-61 km.)				34-40 (62-74 km.)				> 40 (> 75 km.)				TOTAL													
	hh	00-01	02	04	05-09	00-01	02-04	05-09	00-01	02	04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09										
dd	hh	< 30-	60-	150-	30 m.	120	270		< 30-	60-	150-	30 m.	120	270		< 30-	60-	150-	30 m.	120	270		< 30-	60-	150-	30 m.	120	270		< 30-	60-	150-	30 m.	120	270		< 30-	60-	150-							
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23									
	ff	<200-	800-	1600-	600 m.	1400	4600		<200-	800-	1600-	600 m.	1400	4600		<200-	800-	1600-	600 m.	1400	4600		<200-	800-	1600-	600 m.	1400	4600		<200-	800-	1600-	600 m.	1400	4600		<200-	800-	1600-	600 m.	1400	4600		<200-	800-	1600-
N																																														
NE																																														
E																																														
SE																																														
S																																														
SW																																														
W																																														
NW																																														
Calm																																														
Total																																														

Data are not falling within the specified ranges.

- Notes: (a) Wind direction (dd) is with reference to true North.
(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).
(d) The ranges of horizontal visibility (vv) are as follows:
00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiangmai Year 1951 Month June

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33	1										
32	4										
31	6										
30	5										
29	4	6									
28	4	5									
27	1	8									
26	4	6	2								2
25	1	4	16	9							3
24		2	10	16							5
23			2	5							
22											1
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

พิมพ์
โรงพิมพ์กรรมอุทกศาสตร์ ชลบุรี

• ๑.๑. ๕๕



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

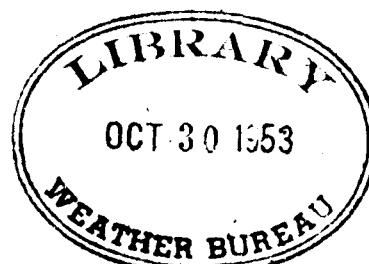
ROYAL THAI NAVY

นาวาเอก ชูณย์ วิชัยากข์ บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director



สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ประจำเดือน กันยายน ๒๕๑๔

กรกฎาคม ๒๕๑๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 7

July 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชู眷 วิชยาภัช บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนส์ํารับการบิน

๘๔ • ฉบับที่ ๑

กรกฎาคม ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 7
July 1951

Aeronautical Statistics

Contents

page

Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4 / 8 ths of the sky (Table I) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	1-4, 8-9, 13-15, 19-21.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, Songkhla and Chiengmai Airport.	5,10,16,22.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more / or the height of the base of the low cloud covering more than 4 / 8 ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	6,11,17,23.
Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	7,12,18,24.

คำนำ

สมคสติศึกนิยมวิทยาสำหรับการขับขี่ ได้ร่วมร่วมกับความชัดเจนของที่ประชุมระหว่าง CMA& กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการขับขี่ทางอากาศโดยให้มีกำหนดเวลาเดินทางเดือนนั้น กองอากาศประจํารัฐ กรมอุตุนิยมวิทยา ได้กำหนดจังหวะเดินทางเดือนนี้ เริ่มต้นตั้งแต่เดือน มกราคม ๒๕๖๔ เป็นต้นไป.

แท้แรกเริ่มทางการไก่คอกพัฒนาอย่างน้อยเป็นรายเดือนอยู่แล้ว เมื่อไก่มีการเปลี่ยนแปลงแก้ไขกันใหม่กามซื้อตกลงที่ประชุมครั้งนี้ รปร่วงหนังสือลงไว้เปลี่ยนไปกว่า ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๑๓ สิงหาคม ๒๕๖๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Me. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,

Royal Thai Navy,

Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain, R.T.N.

DIRECTOR.

- 1 -

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 0600 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	<u>V</u> <u>) (</u>	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											4	27	31
Total											4	27	31

- Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)									1				1
24-39 (4800-7800 m.)													
40 or more (8000 or more)												13	30
Total									1	13	2	15	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												5	25
Total												6	25
													81

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											2	1	27
Total											2	1	28
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY: Table II

Aerodrome Don Muang Year 1951 Month July Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N	8	3										11
NE	10	6										16
E	29	8	1									38
SE	79	31	17	7	1							115
S	63	17	13	-	1							94
SW	67	7	5	-	-	-	-	1				79
W	135	82	47	6	3	8	-	-	1			227
NW	25	24	7									56

- Notes
- a) Wind direction is with reference to true North.
 - b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrom Don Muang Year 1951 Month July Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff hh	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL									
	<01	02-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
dd	<01	02-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	<01	02-04	05-09	<01	02-04	05-09	<01	02-04	05-09
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
hh	60 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600
N																		
NE																		
E																		
SE																		
S																		
SW																		
W																		
NW																		
Calm																		
Total																		

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month July

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					3						
34						16					
33	6					2					
32	9	8				2					
31	7	5				5					
30	2	5				2	10				
29	4	6				-	14				
28	2	6	2			-	2				
27	1	2	11	8		-	4				
26		4	9	13		1	-	5	1		3
25			4	14			1	15	6	11	12
24			5	1				10	14	13	14
23								1	9	7	2
22									1		1
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakron Rajasima Year 1951 Month July Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ✓	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-89 (4800-7800 m.)										2			2
40 or more (8000 or more)										6	23		29
Total										8	23		31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

9

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakron Rajasima Year 1951 Month July Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hb	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	$\sum V$	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)							1			2	1			4
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)											2			2
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)									1	1				2
40 or more (8000 or more)										5	13	2	3	23
Total							1			8	17	2	3	51

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hb.

(b) The figures in the column marked $\sum V$ indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hb = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month July Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		8	2										5
NE		2	1										3
E		3	4	1									8
SE		2	1	1									4
S		6	7	4	1								18
SW		4	4	1	1								10
W		21	26	18	9	1							76
NW		-	8										8

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrom Nakorn Rajasima Year 1951 Month July Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL				
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	
dd	bb	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	
	vv	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	
	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23		
	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-		
	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600		
	N																												
	NE																												
	E																												
	SE																												
	S																												
	SW																												
	W																												
	NW																												
	Calm																												
Total																													

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month July

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature °C	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36					8						
35	7				5						
34	7				5						
33	1				3						
32	4				4						
31	4	1			-						
30	1	8			4	8					
29	8	4			1	14					
28	1	6			-	6					
27	2	7			1	8					
26	-	2	2			4		1			
25	1	3	11	12		1	1	5	3	2	1
24		4	14	15			6	8	10	6	8
23		1	4	4			16	11	14	14	17
22							8	2	3	8	5
21								4	1	1	
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month July Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh													V)	Total
		00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900			
00 (<200 m.)															
01 (200 m.)															
02 (400 m.)															
03 (600 m.)															
04 (800 m.)															
05 (1000 m.)															
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)							1								1
10-11 (2000-2200 m.)															
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)												1			1
24-39 (4800-7800 m.)														1	1
40 or more (8000 or more)													1	1	26
Total							1					1	1	28	81

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month July Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)								1					1
40 or more (8000 or more)										3		26	29
Total									1	3		27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month July Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V $\frac{1}{4}$	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												1	1
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												8	8
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												5	5
40 or more (8000 or more)												22	22
Total												31	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month July Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots													Total
	0	1-8	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63		
N		4	5	4	2									15
NE		11	15	48	6	-	1							75
E		28	17	19	9	-	1							69
SE		22	4	4	-	1								31
S		31	19	10	2	-	1							63
SW		54	59	56	82	15								216
W		82	24	28	16	4	1							100
NW		5	-	-	-	1								6

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrom Songkhla Year 1951 Month July Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
Lh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	<30- 60- 150- 30 m. 120 270								
vv	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23	00-03 04-07 08-23
	<200- 800- 1600- 600 m. 1400 4600								
N									
NE									
E									
SE									
S									
SW				1 2	1				1 3
W		2	1 3		1		1		1 7
NW					1				1
Calm									
Total		2	2 5	3		1			2 11

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " .. 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " .. 150 metres (500 feet) " " .. 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " .. 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " .. 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.
the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month July

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					1						
33	2					4					
32	8					8					
31	7				12						
30	7	2			3	1					
29	1	10			1	5					
28	8	4	1		-	11					
27	-	4	2		1	11					
26	-	2	11	5	1	1	1	1			
25	2	5	10	12		1	7	2	2	3	2
24	1	3	6	11		1	12	11	9	10	5
23	1	1	1	3			10	12	12	10	17
22							1	4	7	6	6
21								1	2	-	
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule: Max + Min

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month July Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V — () —	Total
		<100 ft	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)											1			1
40 or more (8000 or more)											4	6	20	30
Total											5	6	20	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiangmai Year 1951 Month July Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												4	25
Total												4	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month July Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh													V)	Total	
		00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900				
00	(<200 m.)															
01	(200 m.)															
02	(400 m.)															
03	(600 m.)															
04	(800 m.)															
05	(1000 m.)															
06-07	(1200-1400 m.)															
08-09	(1600-1800 m.)															
10-11	(2000-2200 m.)															
12-15	(2400-3000 m.)															
16-23	(3200-4600 m.)													1	1	
24-39	(4800-7800 m.)															
40 or more (8000 or more)													3	3	24	80
Total													3	3	24	81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month July Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-8	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	54	8	3	2									67
NE		2											2
E		9											9
SE	81	3	1										85
S	168	18	6										172
SW	78	9	-	2	1								88
W	15												15
NW		20	1										21

Notes: a) Wind direction is with reference to true North.
b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrom Chiengmai Year 1951 Month July Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

	ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (>75 km.)	TOTAL	
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
dd	< 30- 60- 150- 30 m. 120 270										
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N											
NE											
E											
SE											
S											
SW											
W											
NW											
Calm											
Total											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month July

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	8										
31	10										
30	8	1									
29	7	8									
28	1	1									
27	4	7									
26	2	6	1								
25	1	5	10	5				4	6	1	
24		3	14	19				8	18	12	8
23			5	6				15	8	9	12
22			1	1				8	1	2	10
21											2
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule: Max + Min

พิมพ์
โรงพิมพ์กรรณสูตศาสตร์ ขอนบุรี

๙ น.ก. ๘๖



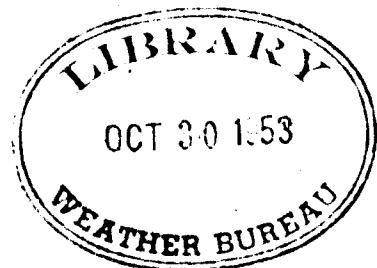
กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ บุญญาภิ บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director



สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ประจำเดือน สิงหาคม พ.ศ.๒๕๑๔

สิงหาคม ๒๕๑๔

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 8
August 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก ชรุณ วิชยาภิ บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนส์ember ปี
๖๔ ฉบับที่ ๘
สิงหาคม ๒๕๑๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 8
August 1951

Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8 ths of the sky (Table I) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	1-4, 8-9, 13-16, 20-23.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	5,10,17,24.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more / or the height of the base of the low cloud covering more than 4/8 ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	6,11,18,25.
Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	7,12,19,26.

คำนำ

สมกสกนิยมวิทยาสำหรับการบินนี้ ได้รับความชันด้านข้อทดสอบที่ประชุมร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นไปตามมาตรฐานทางการบินสากลโดยให้มีกำหนดของเรียนรายเดือนนั้น กองอากาศประจัดน กรมอุตุนิยมวิทยา ได้รับอนงส์และออกเรียน ตั้งแต่เดือน มกราคม ๒๕๔๔ เป็นต้นไป.

แท้แรกเริ่มทางการได้เคยพิมพ์สมกต้นของน้องสาวเรียนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ก่อน ข้อทดสอบที่ประชุมครั้งนี้ รูปร่างหนังสือจะได้เปลี่ยนไปกว่าเดิม ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนง. ตาราง ๕ กล่าวถึงอุณหภูมิและอุกตาน้ำค้างแข็งระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมีได้รักทำ ทั้งนี้ เนื่องจากเครื่องมือ Radiosonde ขาดช่วงการใช้ไปบางช่วง เมื่อได้รับการพัฒนาแล้วสมบูรณ์จะได้ออกนิยมวิทยาการบินก็จะมีตาราง ครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๑๓ สิงหาคม ๒๕๔๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,

Royal Thai Navy,

Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain, R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	. 00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V — () —	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											3	28	31
Total											3	28	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 < 100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)											1		1
24-39 (4800-7800 m.)													
40 or more (8000 or more)											8		22
Total											9		22
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

vv	hh	<100ft.	00	01	02	03	04	05	06-07	08-09	10 14	15-29	30-79	V)	Total
00	(<200 m.)														
01	(200 m.)														
02	(400 m.)														
03	(600 m.)														
04	(800 m.)														
05	(1000 m.)														
06-07	(1200-1400 m.)														
08-09	(1600-1800 m.)														
10-11	(2000-2200 m.)														
12-15	(2400-3000 m.)														
16-23	(3200-4600 m.)														
24-39	(4800-7800 m.)														
40 or more	(8000 or more)													31	31
Total														31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 1	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08 09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											1	29	30
Total											1	30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month August Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		5	1	1		1							8
NE		1											1
E		6	6	3									15
SE		23	10	4									37
S		47	14	6	2								69
SW		140	37	8									185
W		169	125	93	16	4	1	-	2				409
NW		16	10	1									27

Notes. a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month August Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL				
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	
dd	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	
	vv	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	
	hh	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	
	vv	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	
	hh	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	
N																													
NE																													
E																													
SE																													
S																													
SW																													
W		-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
NW																													
Calm																													
Total		-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet).

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet).

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards).

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile).

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month August

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1809 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					2						
34					8						
33	1				12						
32	11	1			5						
31	11	5			1	1					
30	7	4			3	9					
29	1	6				18					
28		7	8			5					
27		2	12	5			1				1
26		3	4	19			16		4	4	
25		1	6	7			12	3	11	7	3
24							1	12	10	11	12
23							1	13	6	7	15
22								3		1	1
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month August Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 7	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												7	24
Total												7	24
													31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month August Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V — () —	Total
		<100ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)													31	31
Total													31	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakon Rajasima Year 1951 Month August Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	-	4											4
NE		1											1
E	-	1											1
SE													
S	1	-	1										2
SW	2	2	1										5
W		37	82	21									126
NW	-	1											1

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month August Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

	ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL	
dd	hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
44	hh	<30- 60- 150- 30 m. 120 270									
	vv	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-08 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
	N										
	NE										
	E										
	SE										
	S										
	SW										
	W										
	NW										
	Calm										
	Total										

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " .. 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " .. 150 metres (500 feet) .. " .. 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-08 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " .. 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " .. 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month August

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36					3						
35	1					1					
34	4					3					
33	6					8					
32	6					8					
31	2					5					
30	6	5				4	1				
29	8	5				2	5				
28	-	7				1	9				
27	2	8				1	11				
26	1	3	2				4			1	
25		2	12	7			1		2	5	1
24		1	18	17					6	6	8
23			4	7				20	16	9	15
22								5	6	5	8
21									1	1	2
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									1			2	3
40 or more (8000 or more)										1		27	28
Total									1	1		29	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-28 (3200-4600 m.)														
24-39 (4800-7800 m.)													1	1
40 or more (8000 or more)													26	30
Total												4	27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1						1
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												29	29
Total							1					30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observatory site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	08 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (< 200 m.)													
01. (200 m.)													
02. (400 m.)													
03. (600 m.)													
04. (800 m.)													
05. (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											1	30	31
Total											1	30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month August Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		5	7	6	1								19
NE		9	26	10									45
E		6	6	12	4								25
SE		4	3	2	2	-	-	1					12
S		40	29	16	5	6							96
SW		72	65	61	24	7	4						288
W		88	25	33	18	17	10	2					188
NW		8	-	1									4

Notes. a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Songkhla Year 1951 Month August Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than $\frac{4}{8}$ ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet).

02-04 = " " " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 — " " " .. 150 metres (500 feet) 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 - horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07— " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);

08-23- 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month August

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34	1				1						
33	2				6						
32	9				16						
31	10				8						
30	4	4									
29	1	10				11					
28	-	7	1			18					
27	8	7	4			7					
26	-	2	15	9				2			
25	1	-	7	16			10	10	5	2	1
24		1	4	6			14	11	12	13	8
23							6	6	13	13	19
22							1	2	1	2	1
21								1		1	1
20											1.
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month August Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

hh VV	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V —	Total
00. (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											6	4	21
Total											6	4	21
													81

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

- 21 -
METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiangmai Year 1951 Month August Time of observation 1200 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	<u>V</u>)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												8	21
Total												8	21
													81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
 (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
 (i) no cloud
 (ii) hh = 80 or more
 (iii) cloud amount 4/8ths or less
 (c) The observations upon which the above table is based are those made at the meteorological observatory site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month August Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												29	30
Total											1	30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month August Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh											V)	Total	
		00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)												1	1	
40 or more (8000 or more)											4	26	80	
Total											4	27	31	

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month August Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	58-63	>68	
N	24	-	1	1									26
NE	8	-	8										6
E													
SE	24	-	-	1									25
S	117	-	1										178
SW	68												68
W	14	-	-	1									15
NW	8												8

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Chiengmai Year 1951 Month August Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL								
	hh			00-01 02-04 05-09			00-01 02-04 05-09			00-01 02-04 05-09			00-01 02-04 05-09			00-01 02-04 05-09			00-01 02-04 05-09			00-01 02-04 05-09			00-01 02-04 05-09								
	dd	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-					
hh	00-01	02-04	05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09			
dd	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-
dd	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270
hh	00-08	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23			
hh	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-
hh	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600
N																																	
NB																																	
B																																	
SE																																	
S																																	
BW																																	
W																																	
NW																																	
Calm																																	
Total																																	

Data are not falling within the specified ranges

- Notes: (a) Wind direction (dd) is with reference to true North.
(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).
(d) The ranges of horizontal visibility (vv) are as follows:
00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month August

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	2										
31	6				.						
30	9										
29	5										
28	1	6									
27	8	6									
26	4	12						1	1		
25	1	6	15	2				4	8	1	1
24		1	15	23				10	19	14	10
23			1	6				19	7	8	20
22								2			6
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

พิมพ์

โรงพิมพ์กรรณสุกศาสตร์ ชนบุรี

พ.ศ. ๘๖



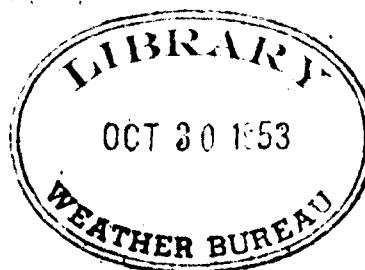
กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ บุญญาภิ บุนนาค

เจ้ากุน

Capt. Charoon V. Bunnag R.T.N.,
Director



สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๘

กันยายน ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 9
September 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก ชรุณ บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ประจำเดือน กันยายน ๒๕๓๔

กันยายน ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 9
September 1951

Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8 ths of the sky (Table I) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	1-4, 8-9, 18-16, 20-23
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	5,10,17,24.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more / or the height of the base of the low cloud covering more than 4/8 ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	6,11,18,25.
Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	7,12,19,26.

คำนำ

สมกสติ กิจกนิยมวิทยาสำหรับการบินนี้ ได้รับความชันทางชั้นทดลองที่ปะซุ่มร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นปัจจุบันสำหรับการบินทางอากาศโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประการ์ดิน กรมอุตุนิยมวิทยา ได้รักษาสืบทอดประเพณีนี้ เริ่มกังแท้เดือน มกราคม ๒๕๔๘ เมื่อกันไป.

แต่แรกเริ่มทางการไก่เกย์พิมพ์สมกทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อไก่มีการเปลี่ยนแปลงแก้ไขกันใหม่ก็ตาม จัดทดลองที่ปะซุ่มครั้งนี้ รูปร่างหนังสือจะไม่เปลี่ยนไปกว่า ซึ่งก็เป็นการสะดวกและง่ายที่การพิจารณาศึกษา.

อนึ่ง ตารางฯ กล่าวถึงอุณหภูมิและรุกน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิไก่รักทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อไก่ดูปกรด์พิร้อມแล้วสมุกสุดที่อุตุนิยมวิทยาการบินก็จะมีตาราง ครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๑๓ สิงหาคม ๒๕๔๘

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,

Royal Thai Navy,

Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain. R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muang Year 1951 Month September Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

hh VV	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											9	21	30
Total											9	21	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month September Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 1	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month September Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100-200	02 200-300	03 300-400	04 400-500	05 500-600	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / ()	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											3	1	25
Total											3	1	26
													80

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month September Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 17	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												21	29
Total									1	1	4	2	22
													30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month September Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N		17	11	1		.						29
NE		39	14	6								59
E		61	30	7	-	1						99
SE		88	38	11	1							138
S		61	32	9	1	1						104
SW		72	14	5	2	1						94
W		102	46	4	1	3						156
NW		34	8	3								45

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month August Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd	ff , 0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL					
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09		
hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-			
30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	
N																														
NE																														
E																														
SE																														
S																														
SW																														
W																														
NW																														
Calm																														
Total																														

Data are not falling within the specified ranges

- Notes: (a) Wind direction (dd) is with reference to true North.
(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
90-91 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).
(d) The ranges of horizontal visibility (vv) are as follows:
00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month September

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					2						
34	2					5					
33		7				12					
32	2					5					
31	6	6				8	1				
30	6	7				2	9				
29	8	8				-	12				
28	8	4	18	1		1	5				
27	1	2	7	11			2	4	2	1	1
26		2	5	9			1	12	4	1	8
25		1	4	5					5	10	10
24			1	4					6	11	17
23									8	3	-
22											1
21											4
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Raja Sima Year 1951 Month October Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

hh VV	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)												3	3
05 (1000 m.)													
06-07 (1200-1400 m.)												6	6
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)												4	4
12-15 (2400-3000 m.)									2			1	3
16-25 (3200-4600 m.)								1					1
26-39 (4800-7800 m.)												2	2
40 or more (8000 or more)												11	11
Total								3				27	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observatory site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Raja ~~ms~~ Year 1951 Month September Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100 ft.	100-200	200-300	300-400	400-500	500-600-700	800-900	1000-1400	1500-2900	3000-7900			
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)													1	1
04 (800 m.)													2	2
05 (1000 m.)														
06-07 (1200-1400 m.)													6	6
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)													4	4
12-15 (2400-3000 m.)													1	1
16-28 (3200-4600 m.)													1	1
24-29 (4800-7800 m.)													1	1
40 or more (8000 or more)										1	8		10	14
Total										1	8		26	80

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month September Time of observation 1800,2100,2400,0800,0600,0900,1200,1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-68	>68	
N	0	12	3	1									16
NB		6	2	2	1								10
E		11	5	7	8		1						27
SE		1	1										2
S		6	5	3	8	2							19
SW		1	-	4	1	1							7
W		11	11	7	2	1	1						38
NW		1	2										3

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month September Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL				
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	
dd	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	
	hh	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	
vv	hh	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	
	hh	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	
ff	hh	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	
	hh	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	
N																													
NE																													
E																													
SE																													
S																													
SW																													
W																													
NW																													
Calm																													
Total																													

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month September

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36					1						
35						6					
34						7					
33	10					6					
32	7					2					
31	8					1					
30	8					3					
29	2	8			2	10					
28	2	8			1	8					
27	1	9			1	5					
26	1	6				5		8			
25	-	6	2	2		2		9	1	1	3
24	-	8	16	10				2	12	9	10
23	1	1	9	14				20	5	9	16
22			2	8				6	1	9	5
21			1	1				2	2	-	2
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above

table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month September Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)										1	1		28	30
Total										1	1		28	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1961 Month September Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
	<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)							1					1	2
40 or more (8000 or more)							1		1			26	28
Total							2		1			27	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month September Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100ft.	00 100	01 200	02 300	03 400	04 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												29	29
Total												80	80

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observations site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month September Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)									.					
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-28 (3200-4600 m.)														
24-39 (4800-7800 m.)														
40 or more (8000 or more)												1	29	30
Total												1	29	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month September Time of observation 1800-1500 G.M.T

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		11	11	11	2								35
NE		15	29	25									69
E		7	8	2									17
SE		6	3	1									10
S		44	34	6	6	1	1	1					98
SW		58	59	40	23	5	1						186
W		42	32	15	11	8							108
NW		2	2										4

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month September Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL			
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	
dd	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	
	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	
	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	< 200-	800-	1600-	
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month September

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35											
34	1					1					
33	8					5					
32	7					8					
31	9					12					
30	6	1				2					
29	3	5				2	7				
28	-	10					9				
27	1	2					11				
26		7	11	8			8		1	1	
25		4	14	16				5	6	2	2
24		1	5	10				17	17	18	12
23				1				7	4	6	14
22								1	2	3	2
21											1
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY ; Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	00	<100ft.	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900	8000+	8000+	Total
00 (<200 m.)															
01 (200 m.)															
02 (400 m.)															
03 (600 m.)															
04 (800 m.)															
05 (1000 m.)															
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)															
10-11 (2000-2200 m.)															
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)															
24-39 (4800-7800 m.)															
40 or more (8000 or more)														3	30
Total														3	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

<u>h</u> <u>V V</u>	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	<u>V</u> <u>/</u> <u>(</u>	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											3	4	28
Total											3	4	28
													80

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 1800 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

vv \ hh	00 <100 ft.	01 100	02 200	08 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7600 m.)													
40 or more (8000 or more)												3	27
Total												3	27
													30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than $\frac{4}{8}$ ths of the sky.

h VV	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)											1		1
40 or more (8000 or more)											8	2	19
Total											9	2	19
													80

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount $\frac{4}{8}$ ths or less
(c) The observations upon which the above table is based are those made at the meteorological observatory site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month September Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots													Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63		
N		17	8	-	1									26
NE		4	-	1										5
E		2												2
SE		6												9
S		48	6											54
SW		26	2											28
W		8												8
NW		8	1	1										10

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Chiengmai Year 1951 Month September Time of Observation 1800-1500 GMT |

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
dd	hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
	hh	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270
	vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Chiengmai Year 1951 Month September

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature °C	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33	1										
32	6										
31	8										
30	7										
29	5										
28	3	9									
27	1	11									
26	-	4	1					2	3		
25	1	6	10	-				5	10	1	
24	1	2	13	21				5	15	8	11
23			7	7				19	7	9	11
22				1				6	1		7
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

พิมพ์

โรงพิมพ์กรรมอุทกศาสตร์ ชนบุรี

พ.ศ. ๘๖

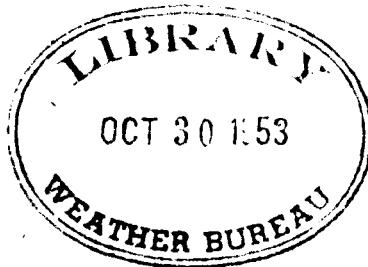


กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ วิชากัศย์ มุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director



สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

๘๔ ฉบับที่ ๑๐

กุมภาพันธ์ ๒๕๑๔

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 10
October 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

នារោះខេក ទុរូយុ វិចហាក័ម្ម បុននាក់ ខៅក្រុង

Capt. Charoon V. Bunnag R.T.N.,
Director

ສົດຕິອຸຕຸນິຍໍມວິທຍາປະຈຳເດືອນສຳຫຼັບການບິນ

ໜັກ • ໂມນັກ

ଭୁବନେଶ୍ୱର

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 10
October 1951

Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8ths of the sky (Table I) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	1-4, 8-9, 18-16, 20-23
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	5,10,17,24
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more/or the height of the base of the low cloud covering more than 4/8ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	6,11,18,25
Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	7,12,19,26

คำนำ

สมกสติอกนิยมวิทยาสำหรับการบินนี้ ได้ร่วมรวมขั้นตอนซึ่งออกโดย CMAe กับ Met. Div. ICAO เพื่อให้เป็นไปตามมาตรฐานที่กำหนดโดยให้มีกำหนดของเมืองเดือนนั้น ดังมาตราที่ระบุไว้ด้านล่าง กรมอุตุนิยมวิทยา ได้รับอนุมัติประเวณชั้น เริ่มใช้ตั้งแต่เดือน มกราคม ๒๕๖๔ เป็นต้นไป.

แท้จริงแล้ว ไม่ใช่การเปลี่ยนแปลงแก้ไขกันใหม่ทุกๆ ชั้นออกโดย CMAe ที่ระบุไว้ในรายเดือนนั้นๆ แต่เป็นการเพิ่มเติมแก้ไขกันใหม่ทุกๆ ชั้นออกโดย CMAe ที่ระบุไว้ในรายเดือนนั้นๆ ซึ่งก็คือการสะกวณและง่ายที่การพิจารณาศึกษา.

ดัง ตาราง ๕ กล่าวถึงชุดห้องและรุ่นน้ำค้างแข็งของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ซึ่งได้รับการนับถือใน Radiosonde ชากรุ่นปัจจุบัน ไปบางอย่าง เมื่อไก่ตุ่นปัจจุบันแล้วสมุกสติที่อุตุนิยมวิทยาการบินก็จะมีตาราง กรณีอยู่สมญานั้น.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๑๓ สิงหาคม ๒๕๖๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,

Royal Thai Navy,

Bangkok, 13th August 1951.

Charoon V. Bunnag.

Captain. R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month October Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)											1		1
40 or more (8000 or more)											6		24
Total											7		24
													31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month October Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	.01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30 79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)										2			2
40 or more (8000 or more)												28	28
Total										3		28	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month October Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1		29	30
Total										2		29	81

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month October Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)														
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)														
16-23 (\$200-4600 m.)												.		
24-39 (4800-7800 m.)														
40 or more (8000 or more)													3	27
Total													8	81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month October Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-68	>68	
N		58	24										77
NE		40	10	-	-	1							51
E		59	22	6	1								88
SE		65	20	4									89
S		35	8	2	2	1							48
SW		49	11	1									61
W		128	57	22	4	-	1						212
NW		60	7	1	1								69

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month October Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL	
dd	hh	00-01 02 04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
	hh	<30- 60- 150- 30 m. 120 270								
	vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N										
NE										
E										
SE										
S						1				
SW										
W										
NW										
Calm										
Total					1				1	

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month October

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					2						
33	1				5						
32	4				10						
31	8	2			4						
30	8	5			6	8					
29	6	6	1		2	9					
28	2	5	7		2	10					
27	2	8	8	2		5	1	1			
26	-	7	13			4	8	8	4	3	2
25		4	6	9			9	7	7	16	10
24		1	2	7			8	10	9	4	3
23							5	5	8	5	6
22								3	3	2	3
21								-		1	1
20								2			1
19											
18							10				
17								1			
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

- Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
- b) The daily average dry bulb temperature is determined according to the following rule:

$$\frac{\text{Max} + \text{Min}}{2}$$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month October Time of observation 0600 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
 height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	<u>V</u>)	Total
		<100ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)									1					1
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)														
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)										1				1
16-23 (3200-4600 m.)														
24-39 (4800-7800 m.)										1				1
40 or more (8000 or more)													28	28
Total									1	2			28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month October Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

vv \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)									2				2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)									1				1
16-23 (3200-4600 m.)	.												
24-39 (4800-7800 m.)								1	2				3
40 or more (8000 or more)												25	25
Total								1	5			25	81

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for vv; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY - Table 11

Aerodrome Nakorn Rajasima Year 1951 Month October Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed-in-Knots												Total
	0°	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		4	1	-	1								6
NE		8	10	2									15
E		9	15	5									29
SE		-	-	1									1
S		5	2	2									9
SW		1	8										9
W		10	7	8									25
NW		8	2										5

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month October Time of Observation 2400-0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
dd	hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
hh	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270	<30- 60- 150- 30 m. 120 270
vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
BW									
W									
NW									
Calm									
Total	:								

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet).

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month October

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					8						
33	2				5						
32	8				8						
31	5				4						
30	5				6						
29	5	2			2	5					
28	8	4			2	3					
27	-	7			-	9					
26	1	2	2		-	6		3	3		
25	-	6	5	4	1	5		7	7	3	1
24	1	5	8	8		2	3	6	8	8	8
23	1	5	11	11		1	12	5	5	9	12
22		1	3				10	5	2	6	3
21		8	2				1	1	3	-	1
20		1	1				2	2	3	4	2
19			2				2	-		1	2
18							1	2			2
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

- Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.
b) The daily average dry bulb temperature is determined according to the following rule:

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

vv \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)									2				2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)									1				1
24-39 (4800-7800 m.)													
40 or more (8000 or more)							1		1			26	26
Total							1	3	1			26	81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 1200 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)						1							1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)							1						1
40 or more (8000 or more)											2	1	26 29
Total						1	1			2	1		26 31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)							1	1					2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)								1				2	3
40 or more (8000 or more)										1		24	25
Total							1	2	1			27	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 1	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)							1						1
10-11 (2000-2200 m.)													
12-15 (2400-8000 m.)										1			1
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												8	3
40 or more (8000 or more)					1						1		23 25
Total					1	1			1	1		27	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month October Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	4	1	3		5	1							14
NE	8	11	4	3	1	1							28
E	2	7	1	3			1	1					16
SE	3	3	1										7
S	15	12	11	5									43
SW	36	16	16	9	6	3			1				86
W	13	4	16	5	1	4	2	1					46
NW	2												2

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month October Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL				
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09 <th>00-01</th> <td>02-04</td> <td>05-09<th>00-01</th><td>02-04</td><td>05-09</td></td>	00-01	02-04	05-09 <th>00-01</th> <td>02-04</td> <td>05-09</td>	00-01	02-04	05-09	
dd	hh	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	
	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270		
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	
	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600		
N			14																										4
NE			8			1			1																			19	
E			4																										4
SE																													-
S			2																										2
SW			1																										1
W		2	2		1																								3
NW		-	-		-																								-
Calm		-	3		-																								3
Total		2	24		1	1			1																			3	26

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);

02-04 = " " " .. 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " .. 150 metres (500 feet) .. " .. 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " .. 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " .. 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month October

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34	1				2						
33	5				8						
32	4				3						
31	2				7						
30	6				6						
29	4	9			1	8					
28	4	4			3	6					
27	2	10	2		.	12					
26	2	5	8	3	1	4		1			1
25		2	17	19		1		5	8	2	2
24		1	3	9				19	12	16	11
23			1					7	9	7	16
22										4	3
21											2
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above

table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY: Table 1

Aerodrome Chiengmai Year 1951 Month October Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V — () —	Total	
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900			
00 (< 200 m.)															
01 (200 m.)															
02 (400 m.)															
03 (600 m.)															
04 (800 m.)															
05 (1000 m.)															
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)															
10-11 (2000-2200 m.)															
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)															
24-39 (4800-7800 m.)												1		1	
40 or more (8000 or more)												3	27	30	
Total												1	3	27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month October Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

hh VV	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											1	29	30
Total											1	80	81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table 1

Aerodrome Chiengmai Year 1951 Month October Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 17	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												1	28
Total												1	28
													31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month October Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)				1							7	22	30
Total				1							7	23	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month October Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	16	10	4	1	-	-	-	-	-	-	-	-	30
NE	5	6	2	-	-	-	1	-	-	-	-	-	13
E	1	1	-	-	-	-	-	-	-	-	-	-	2
SE	8	1	-	-	-	-	-	-	-	-	-	-	4
S	50	7	-	-	-	-	1	-	-	-	-	-	58
SW	22	4	2	4	-	-	-	-	-	-	-	-	32
W	14	1	-	-	-	-	-	-	-	-	-	-	15
NW	8	1	-	-	-	-	-	-	-	-	-	-	9

- Notes
- a) Wind direction is with reference to true North.
 - b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Chiengmai Year 1951 Month October Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (> 75 km.)			TOTAL			
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
dd	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-
	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	
	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges

- Notes: (a) Wind direction (dd) is with reference to true North.
 (b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.
 (c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:
 00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
 02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
 05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).
 (d) The ranges of horizontal visibility (vv) are as follows:
 00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
 04-07 = " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
 08-23 = " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).
 (e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month October

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	3										
31	8										
30	6										
29	6										
28	3	4									
27	3	4									
26	-	8									
25	1	7	4	1				3	5		
24	1	4	15	9				3	11	11	4
23	1	5	13					13	8	5	17
22	3	4	3					6	1	4	3
21	-	1	1					5	5	-	1
20	-	1						1	-	4	-
19		1	-						3		1
18		2	1							2	1
17			1					2		1	1
16			1					1			1
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

$$\frac{\text{Max} + \text{Min}}{2}$$

พิมพ์

โรงพิมพ์กรุงอุทกศาสตร์ ถนนรัชดาภิเษก

พ.ศ. ๘๖



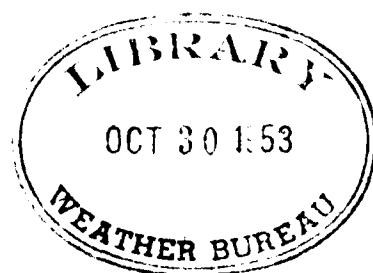
กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก ชรุณ วงศ์บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director



สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

๔๔
มท. ฉบับที่ ๑๑

พฤษภาคม ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 11
November 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชรุณ วิชยาภัช บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสัมหรับการบิน
มีที่.. ฉบับที่ ..

พฤษภาคม ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 11
November 1951

Aeronautical Statistics

Contents

page

Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8ths of the sky (Table I) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	1-4, 8-9, 13-16, 20-23.
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	5,10,17,24.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more / or the height of the base of the low cloud covering more than 4/8ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	6,11,18,25.
Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	7,12,19,26

คำนำ

สมกถดกอุบัติมวีกษาสำหรับการยินดี ให้ร่วมรวมความชัดคล่องที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นไปอย่างสำหรับการยินดี ให้มีกำหนดออกเป็นรายเดือนนั้น กอง查อากาศประจำเดือน กรมอุทุนമวีกษา ให้รักษาและประทับตรา ณ วันที่ ๒๕ มกราคม พ.ศ.๒๕๖๔ เป็นครั้งสุดท้าย.

แต่แรกเริ่มทางการไก่เกบก็พินพ์สมกท่านของน้องกับเป็นรายเดือนอยู่แล้ว เมื่อไก่มีการเปลี่ยนแปลงแก้ไขกันใหม่กามช้อตกลังที่ประชุมครองนั้น รู้ว่าร่างหนังสือร่างไก่เปลี่ยนไปกว้าง ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

องค์การทางการเมืองและรัฐบาลที่ต้องการทราบความก้าวหน้าของอากาศที่อยู่ในระดับสูง 1000 mb. ถึง 40 mb. ยังมีไกด์รักษา ทั้งนี้ เนื่องจากเครื่องมือ Radiosonde ซึ่งอุปกรณ์ไปข้างต้น เมื่อไกด์อุปกรณ์พร้อมแล้วสุ่มสิดก่ออุทกุนิบมวิทยาการบินก็จะมีการวางแผนโดยสมบูรณ์.

กรมธุรกิจการท่องเที่ยวและกีฬา
กรุงเทพฯ วันที่ ๑๓ สิงหาคม ๒๕๖๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,

Royal Thai Navy,

Bangkok, 13th August 1951.

Charoen V. Bunnag.

Captain, R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V J (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									1				1
40 or more (8000 or more)											5		24
Total									1	5		24	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

V V \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)											2		2
24-89 (4800-7800 m.)											2		
40 or more (8000 or more)											26	28	
Total											4	26	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	29
40 or more (8000 or more)													30
Total											1	29	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

V V \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 1 (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)										1			1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											1	27	28
Total									1		1	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month November Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N	155	59	19	-	-	1						284
NE	86	81	-	1	1	1						120
E	48	48	20	3	1							115
SE	7	4	2									13
S	7	2	1	1								11
SW	2											2
W	29	11	4									44
NW	64	34	5									103

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month November Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)					7-10 (12-19 km.)					11-16 (20-28 km.)					17-21 (29-38 km.)					22-27 (39-49 km.)					28-33 (50-61 km.)					34-40 (62-74 km.)					> 40 (> 75 km.)					TOTAL				
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09								
dd	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-								
	hh	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270								
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23									
	60 m.	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600	<200	800	1600									
N																																													
NE																																													
E																																													
SE																																													
S																																													
SW																																													
W																																													
NW																																													
Calm																																													
Total																																													

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month November

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33	1				4						
32	2				7						
31	10				10						
30	7				5	1					
29	4	5			1	6					
28	3	9	3		2	11					
27	2	7	10	4	-	8	1	1	1	1	
26	-	6	7	5	1	3	2	1	1	5	
25	-	2	7	11		1	9	2	9	5	5
24	-	2	2	7			11	11	11	8	6
23	1		1	3			6	7	5	5	3
22							1	2	1	4	6
21								4	2	2	3
20								3			3
19											4
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

$$\frac{\text{Max} + \text{Min}}{2}$$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month November Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 18	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)										11			11
12-15 (2400-8000 m.)													
16-28 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)													
40 or more (8000 or more)												18	18
Total									12			18	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month November Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	<100 ft.					00-07		08-09		10-14		15-29		30-79		V	Total
		00	01	02	03	04	05	600-700	800-900	1000-1400	1500-2900	3000-7900	8000+					
00 (<200 m.)																		
01 (200 m.)																		
02 (400 m.)																		
03 (600 m.)																		
04 (800 m.)																		
05 (1000 m.)																		
06-07 (1200-1400 m.)																		
08-09 (1600-1800 m.)																		
10-11 (2000-2200 m.)			7	1														8
12-15 (2400-3000 m.)																		
16-28 (3200-4600 m.)																		
24-39 (4800-7800 m.)																		
40 or more (8000 or more)																	22	22
Total			7	1													22	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Raja Sima Year 1951 Month November Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-8	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		14	4	2									90
NE		8	15	7	1								81
E		12	10	5	1								28
SE		-	-	-	-								-
S		-	-	-	-								-
SW		-	-	-	-								-
W		1	-	-	-								1
NW		-	-	-	-								-

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Nakorn Rajasima Year 1951 Month November Time of Observation 2400-0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL					
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09		
dd	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09			
dd	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-
dd	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23			
vv	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-
vv	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600
N																														
NE																														
E																														
SE																														
S																														
SW																														
W																														
NW																														
Oalm																														
Total																														

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakron Rajasima Year 1951 Month November

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33					4						
32	4				6						
31	8				8						
30	4				5						
29	6				3						
28	4				1			1			
27	3	6			2		13				
26	1	10			1			7		1	
25		7	4					2	3	-	1
24		4	7	4				4	5	8	3
23		2	8	11		8	3	10	12	7	
22		1	3	5		5	1	5	2	6	
21			4	2		6		2	3	3	
20			2	6		4		2	2	4	
19			2	1		4		1	1	3	
18				1		1		2	1	3	
17						2					
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 0600 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)	1	1										1	3
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)						1						1	2
24-39 (4800-7800 m.)					2							2	4
40 or more (8000 or more)					1	1		1			1	17	21
Total	1	1		3	1	1		1			1	21	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)							1						1
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)				1									1
24-39 (4800-7800 m.)			1				1					3	5
40 or more (8000 or more)							1	1			1	20	23
Total			1	1			3	1			1	23	30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked ^V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 1800 GMF
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)							1						1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1					2	3
24-39 (4800-7800 m.)							1					1	2
40 or more (8000 or more)							1		2			21	24
Total							4		2			24	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V — () —	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)				1				1				1	3
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)					1			1					2
24-39 (4800-7800 m.)												5	5
40 or more (8000 or more)				1	1	8		1				14	20
Total		2	2	3		3						20	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month November Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots													Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63		
N	37	32	28		15	8								120
NE	52	79	22		8	4	3							168
E	16	33	37		24	7	2							119
SE	4	-	1											5
S	16	11	5	2										34
SW	25	15	3	1	1									45
W	19	17	11	1	1									49
NW	11	1	1	1										14

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month November Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	>40 (>75 km.)	TOTAL
hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09
dd	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270	< 30- 60- 150- 30 m. 120 270
vv	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600	00-03 04-07 08-23 600 m. 1400 4600
✓	→ <200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600	<200- 800- 1600- 600 m. 1400 4600
N									
NE									
E									
SE									
S									
SW									
W									
NW									
Calm									
Total									

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet).

02-04 = .. " .. 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = .. " .. 150 metres (500 feet) 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = .. " .. 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = .. " .. 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.
The remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month November

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					1						
33					-						
32	1				2						
31	1				3						
30	7				13						
29	8				4		1				
28	5	13	1		5	3					
27	2	7	6		2	14		1			
26	2	1	9	2		11		2	3	2	1
25	4	7	9	20		1		10	8	12	14
24	2	5	8				3	15	13	16	12
23							21	2	6		3
22							6				
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chingmai Year 1951 Month November Time of observation 0600 G.M.T.

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

V V \ hh	00 <100 ft.	01 100-200	02 200-300	03 300-400	04 400-500	05 500-600	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V — () —	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												1	30
Total												1	30
												28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month November Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / /	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												39	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month November Time of observation 1800 G.M.T
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 30	Total
00 (<200 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
01 (200 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
02 (400 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
03 (600 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
04 (800 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
05 (1000 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
06-07 (1200-1400 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
08-09 (1600-1800 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
10-11 (2000-2200 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
12-15 (2400-3000 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
16-23 (3200-4600 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
24-39 (4800-7800 m.)	—	—	—	—	—	—	—	—	—	—	—	—	—
40 or more (8000 or more)	—	—	—	—	—	—	—	—	—	—	—	30	30
Total	—	—	—	—	—	—	—	—	—	—	—	30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month November Time of observation 2400 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 < 100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (< 200 m.)													
01 (200 m.)													
02 (400 m.)													2
03 (600 m.)													2
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (9000 or more)												1	27
Total												1	29
													30

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month November Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-8	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	28	5											28
NE		5											5
E		8											8
SE		7											7
S	105	4	2										111
SW	44	2	2										48
W	16	1											17
NW		7	1										8

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Chiengmai Year 1951 Month November Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (> 75 km.)	TOTAL	
dd	hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
dd	hh	< 30- 60- 150- 30 m. 120 270								
dd	vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600
N										
NE										
E										
SE										
S										
SW										
W										
NW										
Calm										
Total										

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = .. " .. " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = .. " .. " 150 metres (500 feet) .. " .. 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = .. " .. " .. 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = .. " .. " .. 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

The remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month November

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31	6										
30	9										
29	11										
28	8										
27	-										
26	-	1									
25	-	9									
24	-	5						1	1		
23	-	18	4	1				7	9		
22	1	2	7	4			2	7	8		1
21			6	7			6	6	8	6	3
20			6	6			6	5	2	6	4
19			6	4			4	0	1	5	9
18			1	7			6	1	-	7	2
17				1			5	1	4	6	
16							1		2	5	
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

$$\frac{\text{Max} + \text{Min}}{2}$$

พิมพ์

โรงพิมพ์กรนธุกศาสตร์ ถนนบูรี

ม.ย. ๘๖

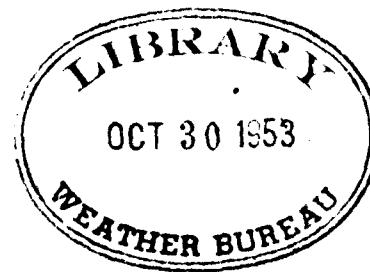


กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชุษ วิชาภัช บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director



สถิติอุตุนิยมวิทยาประจำเดือนส์ทีรบการบิน

๘๕ ฉบับที่ ๑๖

มกราคม ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY
FOR AVIATION

Vol. 1 Part 12
December 1951



กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก ชุติ บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

มห. ฉบับที่ ๑๖

มีนาคม ๒๕๓๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 12
December 1951

Aeronautical Statistics

Contents

	page
Number of simultaneous occurrence of specified visibility ranges and specified ranges of the base of the lowest cloud layer covering more than 4/8ths of the sky (Table I) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	1-4, 8-9, 18-19, 20-23
Number of occurrence of concurrent wind speed and direction within specified ranges (Table II) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	5,10,17,24.
Number of occurrent wind speed and direction within specified ranges when the horizontal visibility and more / or the height of the base of the low cloud covering more than 4/8ths of the sky lies within specified ranges (Table III) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	6,11,18,25.
Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, Songkhla, and Chiengmai Airport.	7,12,19,26.

คำนำ

สมกัดกิจกุนิยมวิทยาสำหรับการบินนี้ ได้ร่วมกันจัดทำข้อความที่ประชุมร่วมระหว่าง CMAe กับ Met. Div. ICAO เพื่อให้เป็นมาตรฐานสำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองจากปีระดับนี้ กรมอุตุนิยมวิทยา ได้รับอนุมัติประทับตราไว้ในเดือนมกราคม พ.ศ.๒๕๔๘ เมื่อกันไป.

แต่แรกเริ่มทางการได้เก็บกิจกุนิยมวิทยาสำหรับการบินของนักอุตุนิยมวิทยาแล้ว เมื่อได้มีการเบ็ดเตล็ดแล้ว จึงได้มีการเบ็ดเตล็ดแก้ไขกันใหม่กามข้อกกลงที่ประชุมครั้งนี้ รู้ว่าทางทุนสหประชาติได้เปลี่ยนไปกับชีวิตรูปแบบการสังเคราะห์และการพิจารณาคิดเห็น ทางการได้รับการสนับสนุนอย่างมาก จึงได้มีการสังเคราะห์และปรับปรุงให้เข้ากับความต้องการของนักอุตุนิยมวิทยาและนักวิทยาศาสตร์ทางอากาศ ให้สามารถใช้ประโยชน์ได้มากที่สุด จึงได้มีการจัดทำข้อความที่ประชุมร่วมระหว่าง CMAe กับ Met. Div. ICAO เพื่อให้เป็นมาตรฐานสำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองจากปีระดับนี้ กรมอุตุนิยมวิทยา ได้รับอนุมัติประทับตราไว้ในเดือนมกราคม พ.ศ.๒๕๔๘ เมื่อกันไป.

อนึ่ง ทางการและนักอุตุนิยมวิทยาต่างๆ ได้รับการสนับสนุนอย่างมาก จึงได้มีการจัดทำข้อความที่ประชุมร่วมระหว่าง CMAe กับ Met. Div. ICAO เพื่อให้เป็นมาตรฐานสำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองจากปีระดับนี้ กรมอุตุนิยมวิทยา ได้รับอนุมัติประทับตราไว้ในเดือนมกราคม พ.ศ.๒๕๔๘ เมื่อกันไป.

กรมอุตุนิยมวิทยาแห่งราชนาวี
กรุงเทพฯ วันที่ ๑๓ สิงหาคม พ.ศ.๒๕๔๘

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,

Bangkok, 18th August 1951.

Charoon V. Bunnag.

Captain, R.T.N.

DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month December Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / ()	Total
00 (<300 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4800 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												1	2
Total												1	2
												28	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month December Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
 (i) no cloud
 (ii) hh = 80 or more
 (iii) cloud amount 4/8ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month December Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100ft.	00 100	01 200	02 300	03 400	04 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												81	81
Total												81	81

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
(i) no cloud
(ii) hh = 80 or more
(iii) cloud amount 4/8 ths or less
(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month December Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)												3	3
40 or more (8000 or more)												28	28
Total												51	51

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month December Time of observation hourly GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N		128	69	58	6								261
NE		78	27	12									117
E		60	18	6									82
SE		4	2	1	2								9
S		2											2
SW		2	1										3
W		47	10	2									59
NW		117	11	3									131

Note: a) Wind direction is with reference to true North.
b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month December Time of Observation hourly GMT
 Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base
 of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd	ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL					
		hh			vv																										
		00-01	02-04	05-09	<30-	60-	150-	30 m.	120	270	<30-	60-	150-	30 m.	120	270	<30-	60-	150-	30 m.	120	270	<30-	60-	150-	30 m.	120	270	00-01	02-04	05-09
N																															
NE																															
E																															
SE																															
S																															
SW																															
W																															
NW																															
Calm																															
Total																															

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome
 the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Miang Year 1951 Month December

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35					2						
34						6					
33	4					8					
32	6					1					
31	1					2					
30	1	1				6	1				
29	4	3				4	5				
28	8	4				8	4				
27	1	3				4	2				
26	6	1	3				2			1	
25		4	7	3			5	1		1	
24		7	8	4			5	6		2	3
23		8	4	6			5	4	4	6	3
22		5	2	3			2	5	6	5	6
21			6	3					4	2	2
20			3	4				4	3	4	4
19			3	5				4	2	1	
18				2				3	2	4	4
17				-				3	5	2	4
16				1				1	3	3	1
15									1		2
14											
13											1
12											
11									1		
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above

table is based are those made at the meteorological
temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined
according to the following rule: $\frac{\text{Max} + \text{Min}}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakron Rajasima Year 1951 Month December Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												3	28
Total												3	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakron Rajasima Year 1951 Month December Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 the of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											5	26	31
Total											5	26	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month December Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots											Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	
N	8	8	1									12
NE	13	14	7	4								38
E	14	17	18	4								49
SE	2											2
S												
SW												
W	1											1
NW												

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month December Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)	7-10 (12-19 km.)	11-16 (20-28 km.)	17-21 (29-38 km.)	22-27 (39-49 km.)	28-33 (50-61 km.)	34-40 (62-74 km.)	> 40 (> 75 km.)	TOTAL	
dd	hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
	hh	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	00-01 02-04 05-09	
	dd	< 30- 60- 150- 30 m. 120 270								
	vv	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600	00-03 04-07 08-23 <200- 800- 1600- 600 m. 1400 4600

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Kajassima Year 1951 Month December

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36					1						
35					-						
34	1				8						
33	1				8						
32	8				2						
31	8				8						
30	8				8						
29	2				6						
28	5	1			8	1					
27	6	2			2	2					
26	4	3			2	3					
25	1	6			2	5		1			
24	1	2			1	4		-	1		
23	1	4	2			1		2	2		
22	2	4	1			4		2	4		
21	5	6	8			9		5	4	3	1
20	5	3	4			-		4	4	2	3
19	1	4	8			2		7	8	6	4
18		2	5					1	2	3	7
17		1	1					6	-	1	3
16		4	4					2	3	1	-
15		4	1					4	5	2	4
14		1	4					2	2	3	2
13			3					4	1	5	4
12			2					1	1		4
11											1
10											
9											
8											
7											
6											

Notes. a) The temperature observation upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

$$\text{Max} + \text{Min}$$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month December Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV	hh													V — () —	Total
		<100ft.	00 100	01 200	02 300	03 400	04 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900			
00 (<200 m.)															
01 (200 m.)															
02 (400 m.)															
03 (600 m.)															
04 (800 m.)															
05 (1000 m.)															
06-07 (1200-1400 m.)															
08-09 (1600-1800 m.)			8	1											4
10-11 (2000-2200 m.)															
12-15 (2400-3000 m.)															
16-23 (3200-4600 m.)									1						2 3
24-39 (4800-7800 m.)				2				1							1 4
40 or more (8000 or more)			1		1							1			17 20
Total			4	8	1	1	1	1				1			20 31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8 ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month December Time of observation 1200 GMT
 Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V 7	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												1	1
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)				1									1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)		1	1									1	3
40 or more (8000 or more)			1									23	24
Total		1	3									27	81

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month December Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ) (	Total
00 (<200 m.)													
01 (200 m.)												1	1
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)				1	1							2	4
24-39 (4800-7800 m.)				1	1							1	3
40 or more (8000 or more)				1	1							20	22
Total			2	2	2							25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month December Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV	hh	00	01	02	03	04	05	06-07	08-09	10-14	15-29	30-79	V —	Total
		<100 ft.	100	200	300	400	500	600-700	800-900	1000-1400	1500-2900	3000-7900		
00 (<200 m.)														
01 (200 m.)														
02 (400 m.)														
03 (600 m.)														
04 (800 m.)		1												1
05 (1000 m.)														
06-07 (1200-1400 m.)														
08-09 (1600-1800 m.)			1										1	2
10-11 (2000-2200 m.)														
12-15 (2400-3000 m.)													1	1
16-28 (3200-4600 m.)				1									1	2
24-39 (4800-7800 m.)			1					1					4	6
40 or more (8000 or more)						8							16	19
Total		1	1	2		8	1						23	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month December Time of observation 1800-1500 GMT
Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	6	10	12	20	6	6	1	2					82
NE	8	17	29	33	11	4	2	2					106
E	7	7	26	70	82	121	58	12	1				384
SE	2	6	10	8	8	11	8	1					49
S	2	2	1										5
SW	2	2	1										5
W	1	4											5
NW	-	2											2

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome

METEOROLOGICAL SUMMARY: Table III

Aerodrome Songkhla Year 1951 Month December Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL						
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09						
dd	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-			
	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-			
	hh	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270			
	hh	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23			
	hh	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-
	hh	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600
N																															
NE																															
E																															
SE																															
S																															
SW																															
W																															
NW																															
Calm																															
Total																															

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Songkhla Year 1951 Month December

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30	1				5						
29	9				16						
28	10	4			7	6					
27	6	18	10	10	2	13	2				
26	2	5	11	8	1	9	7				1
25	3	4	8	6		3	5	11	6	6	6
24			2	6			12	13	15	15	15
23				1			5	4	5	6	6
22								2	3	4	1
21								1	1	1	2
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes a) The temperature observations upon which the above

table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

$$\frac{\text{Max} + \text{Min}}{2}$$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month December Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V \sum	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													1
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month December Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the
height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

vv \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V / /	Total
00 (<300 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for vv; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table 1

Aerodrome Chiengmai Year 1951 Month December Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V $\frac{1}{4}$	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-28 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

- Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.
- (b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with
- (i) no cloud
 - (ii) hh = 80 or more
 - (iii) cloud amount 4/8ths or less
- (c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai Year 1951 Month December Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	<100ft.	00 100	01 200	02 300	03 400	04 500	05 600-700	06-07 800-900	08-09 1000-1400	10-14 1500-2900	15-29 3000-7900	V 1	Total
00 (<200 m.)													
01 (200 m.)												1	1
02 (400 m.)												1	1
03 (600 m.)													
04 (800 m.)												2	2
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												3	3
40 or more (8000 or more)												24	24
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

- (i) no cloud
- (ii) hh = 80 or more
- (iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month December Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												Total
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	
N	70	25	19		16								181
NE		7											7
E		5											5
SE	9	2	1										12
S	47	8											55
SW	80	7											87
W	18												18
NW	12	7	1										20

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Chiengmai Year 1951 Month December Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd	ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL								
		hh	00-01	02-04	05-09	hh	00-01	02-04	05-09	hh	00-01	02-04	05-09	hh	00-01	02-04	05-09	hh	00-01	02-04	05-09	hh	00-01	02-04	05-09	hh	00-01	02-04	05-09					
	hh	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-	< 30-	60-	150-			
	hh	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270			
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23			
	vv	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-	<200-	800-	1600-
	vv	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " 150 metres (500 feet) " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);

08-23 = " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month December

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
48											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30											
29	4										
28	7										
27	7										
26	1										
25	5	1									
24	3	3									
23	2	1	3								
22	2	8	2	2					1	3	1
21	10	1	3					4	2	3	-
20	3	2	-					1	4	6	1
19	4	8	2					1	9	7	2
18	1	8	3					2	4	5	3
17	6	4						3	2	5	11
16	2	9						5	1	3	4
15	2	4						9	5	1	8
14	2	2						2	3	-	5
13	2							2	1	-	2
12								2			
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observation upon which the above

table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

$$\frac{\text{Max} + \text{Min}}{2}$$

พิมพ์

โรงพิมพ์ธรรมอุทกการ์ สนธิ

น.บ. ๔๖